TOSHIBA GA-1120

CONFIGURATION GUIDE

About the Documentation

This manual is part of a set of TOSHIBA GA-1120 documentation that includes the following manuals for users and system administrators:

- The *Quick Start Guide* summarizes the steps for configuring the GA-1120 and printing. It also describes how to access the online documentation.
- The *User Software Installation Guide* describes how to install software from the User Software CD to enable users to print to the GA-1120, and also describes setting up printing connections to the GA-1120.
- The *Configuration Guide* explains basic configuration and administration of the GA-1120 for the supported platforms and network environments. It also includes guidelines for setting up UNIX, Windows NT 4.0/2000, and Novell NetWare servers to provide printing services to users.
- The *Printing Guide* describes the printing features of the GA-1120 for users who send jobs from their computers.
- The *Color Guide* provides information on managing the color output of the GA-1120. It explains how to calibrate your copier and take advantage of the ColorWise® color management system, as well as features in ColorWise Pro Tools™.
- The *Fiery Color Reference* addresses concepts and issues associated with managing color output of the GA-1120 and outlines key workflow scenarios. In addition, it offers information on printing color documents from popular Microsoft Windows and Apple Mac OS applications.
- The *Job Management Guide* explains the functions of the Fiery utilities, including Command WorkStation™ and DocBuilder™ Pro, and how you can use them to manage jobs and maintain color quality. This manual is intended for an operator or administrator, or a user with the necessary access privileges, who needs to monitor and manage job flow, perform color calibration, and troubleshoot problems that may arise.
- *Release Notes* provide last-minute product information and workarounds for some of the problems you may encounter.

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Introduction

This manual is intended for anyone who is responsible for integrating the TOSHIBA GA-1120 into a business environment that includes networked personal computers. After setting up the TOSHIBA GA-1120 and client workstations, individual users can print to the TOSHIBA GA-1120 as a high-performance color printer.

This manual describes how to set up network servers and clients to use the TOSHIBA GA-1120 and how to install user software and set up printing from Windows and Mac OS computers. For general information on using the color copier, your computer, your application software, or your network, see the manuals that accompany those products.

NOTE: The term "GA-1120" is used in this manual to refer to the TOSHIBA GA-1120. "Aero" is used in illustrations throughout this manual to represent the GA-1120. The term "Windows 9x" is used in this manual to represent Windows 98.

The GA-1120 includes support for the Fiery WebTools™ and software for Command WorkStation, which allow an operator to manage all jobs sent to the GA-1120. Although it may not be the case at all sites, the documentation for this product assumes the presence of an operator who controls and manages jobs sent by users from remote workstations.

Any additional connectivity or administrative features specific to the copier are described in the *Printing Guide* or the *Release Notes.*

About this manual

This manual covers the following topics:

- Basic configuration of the GA-1120 to support printing over AppleTalk, TCP/IP, and IPX (Novell) networks
- Administering network printing
- Configuring Novell and Microsoft Windows NT 4.0/2000 servers and UNIX systems to provide GA-1120 printing services

- Using the GA-1120 in mixed network environments

NOTE: The network guidelines in this book are not intended to replace the services of an experienced network engineer.

This manual is organized as follows:

- Chapter 1 illustrates the supported network configurations and shows the network connectors on the GA-1120.
- Chapter 2 provides guidelines for setting up Windows network servers and UNIX systems for printing to the GA-1120 and for using WebTools.
- Chapter 3 describes how to prepare for GA-1120 Setup™, including planning system security through access levels.
- Chapter 4 describes GA-1120 configuration (Setup) from the Control Panel.
- Chapter 5 describes GA-1120 Setup from a Windows computer.
- Chapter 6 describes setting up the GA-1120 for WebTools™
- Chapter 7 summarizes some administrative features of GA-1120 software that are available for IPX/SPX, TCP/IP, and AppleTalk networks, and offers troubleshooting hints.
- Appendix A describes issues that may occur in setting up the GA-1120 and offers solutions.

NOTE: Administrator features described in other manuals are summarized on page 7-1.

Chapter 1: Connecting to the Network

This chapter summarizes the stages in setting up the GA-1120, and includes diagrams that refer you to other chapters or other manuals for completing your installation. Check those references to find the information you need quickly.

GA-1120 on the network

When the GA-1120 is connected to a network, it behaves as a networked PostScript printer. The built-in Ethernet interface on the GA-1120 supports the following network protocols:

- AppleTalk
- TCP/IP (the lpd, nbt, and http protocols)

  TCP/IP stands for Transmission Control Protocol/Internet Protocol. The lpd protocol is the standard TCP/IP printing protocol. The nbt protocol supports Windows (SMB) printing. The port 9100 is the printer server port number to publish print connections between the print server and a remote computer. The http protocol is commonly used for Web pages on the Internet and on intranets. The http protocol also supports IPP printing.

- IPX/SPX (Novell)

  IPX/SPX stands for Internetwork Packet Exchange/Sequenced Packet Exchange.

These protocols (rules that enable computers on a network to communicate with each other) are supported on Mac OS, Windows, and UNIX platforms and can run concurrently on the same cable. Workstations that use other protocols can print through a server that uses one of the protocols mentioned.

When you add the GA-1120 to a network, it is assumed that a network administrator has already installed a network cabling system and connected workstations and servers.

Stages of installation on the network

Installation can be performed by a network or printing administrator. The stages of a successful installation are:

- **Physically connecting the GA-1120 to a functioning network**

  Prepare a network node for the GA-1120—obtain cable, route it to the location where the GA-1120 will be installed, and attach the cable to the network interface (for details, see page 3-9).

  NOTE: If you plan to run Command WorkStation software, you will need to install the software and connect the Command WorkStation computer to the network along with the GA-1120. For more information, see the *User Software Installation Guide*.

- **Configuring the network server**

  When network servers are required, you need to configure those servers to provide client access to the GA-1120 as a color PostScript printer. For information on configuring network servers in Windows and UNIX network environments, see Chapter 2.

- **Setting up the GA-1120**

  Configure the GA-1120 for your particular printing and network environment. First read Chapter 2, and then see subsequent chapters for details.

- **Preparing client workstations for printing**

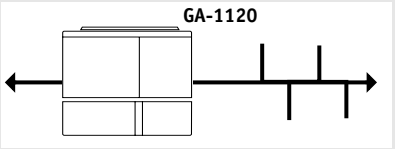
  Install the files needed for printing, install additional user software, and connect the client to the GA-1120 over the network. These steps are described in the *User Software Installation Guide*, and some information is also provided in Chapter 2.

- **Administering the GA-1120**

  Monitor and maintain system performance and troubleshoot problems that arise. For details, see Chapter 7 of this manual and the *Job Management Guide*.

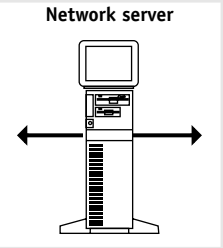
Summary of GA-1120 network installation

CONNECTION



Prepare a network node. Connect the GA-1120 to the network. If you use a computer running Command WorkStation software, connect it to the network.

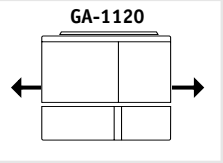
SERVER CONFIGURATION



Configure UNIX, Windows NT 4.0/2000, and IPX (Novell) servers to specify GA-1120 print queues and GA-1120 users.

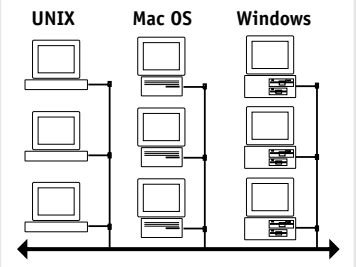
No special configuration of AppleShare servers is required.

GA-1120 SETUP



On the GA-1120 Control Panel, configure, at a minimum, the Server Setup, Network Setup, and Printer Setup. Configure the remaining Setups.

CLIENT SETUP



At each computer from which users print to the GA-1120:

- Install the appropriate printer files and connect to one or more queues.
- Install Fiery utilities and an Internet browser for those computers that will use them.
- Verify the GA-1120 in the list of printers and run a test print.

GA-1120 available on the network

Quick path to installation

The diagrams on the following pages show typical systems you can use to print and run Fiery software from remote workstations. Find the page with your preferred platform and network type, and then look up the setup procedures referenced in the "Key to setup" in the upper-left corner of each diagram.

The diagrams describe devices that use the supported networking protocols. They are logical diagrams and are not intended to describe the physical arrangement (topology) of devices on the network. A variety of physical arrangements is possible with each logical arrangement. For example, twisted pair Ethernet networks commonly use a star configuration around a hub, rather than a bus arrangement. The design of physical networks is beyond the scope of this manual.

If your network uses more than one protocol or more than one type of workstation, combine the setups listed for each component of your system. Multiple protocols (shown in the diagrams as parallel lines) can run on the same cable. A solid connection from the GA-1120 with an arrow indicates that other supported network types can be operational at the same time.

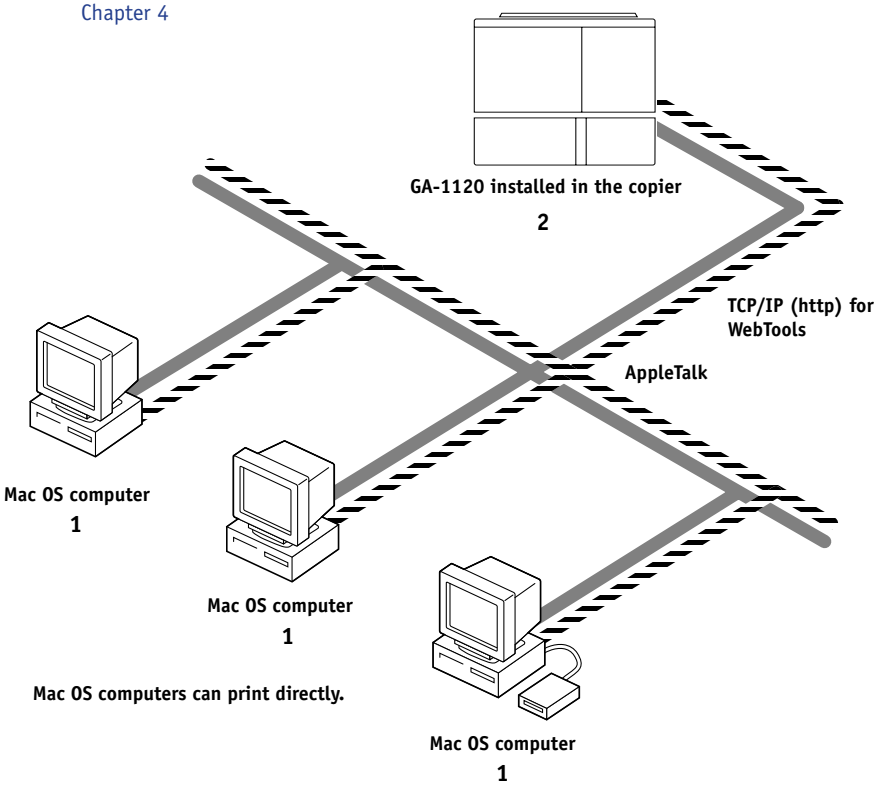
The protocols used in these diagrams are indicated as follows:

Mac OS environment with AppleTalk

Key to setup:

1 Mac OS computer — *User Software Installation Guide*

2 Fiery Setup — Chapter 4



Printing on this network

Mac OS computers can print directly using the AppleTalk protocol.

For using Fiery Utilities

Fiery utilities can be used with the AppleTalk protocol. To use ColorWise Pro Tools and Fiery Link™, TCP/IP is required.

For using WebTools

A Mac OS computer with TCP/IP (http) loaded.

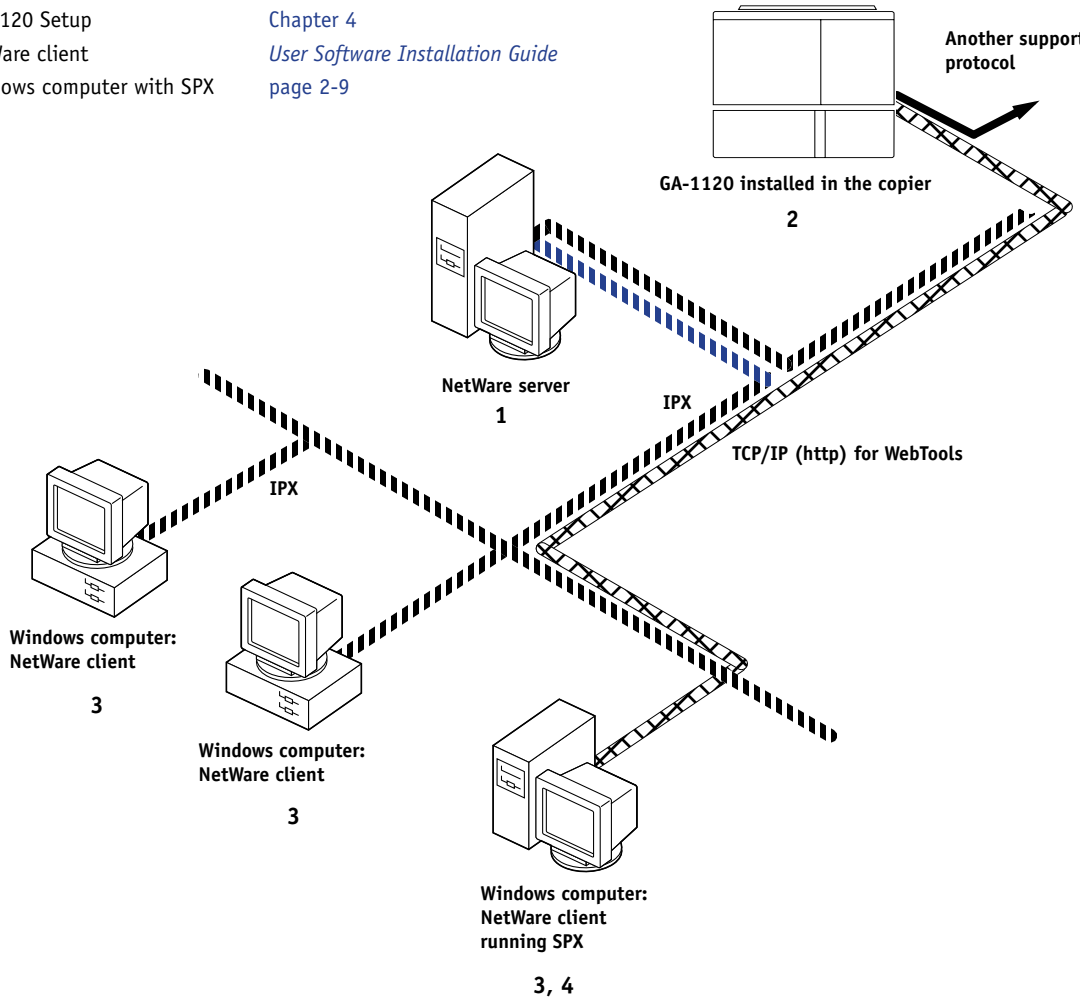
AppleTalk protocol

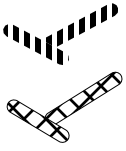
TCP/IP

Windows computers in a Novell environment

Key to setup:

1 NetWare server	page 2-14
2 GA-1120 Setup	Chapter 4
3 NetWare client	*User Software Installation Guide*
4 Windows computer with SPX	page 2-9





Printing on this network

All Windows computers can print through the NetWare server.

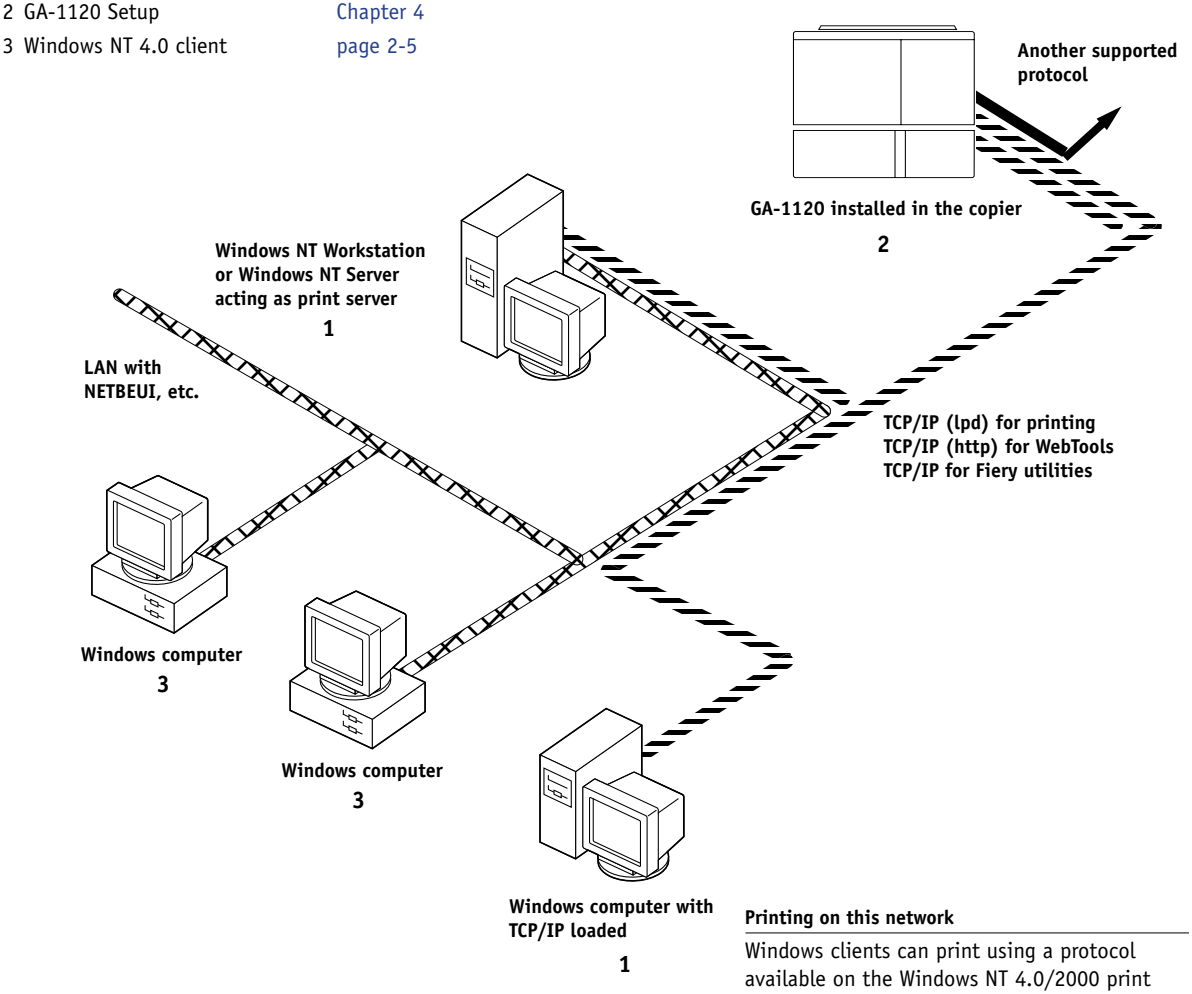
For using WebTools

A Windows computer with TCP/IP (http) loaded.

Windows NT 4.0/2000 Server environment

Key to setup:

1 Windows NT 4.0 Server page 2-3
2 GA-1120 Setup Chapter 4
3 Windows NT 4.0 client page 2-5



Printing on this network

Windows clients can print using a protocol available on the Windows NT 4.0/2000 print server.

Windows computers can print using TCP/IP with the lpd protocol.

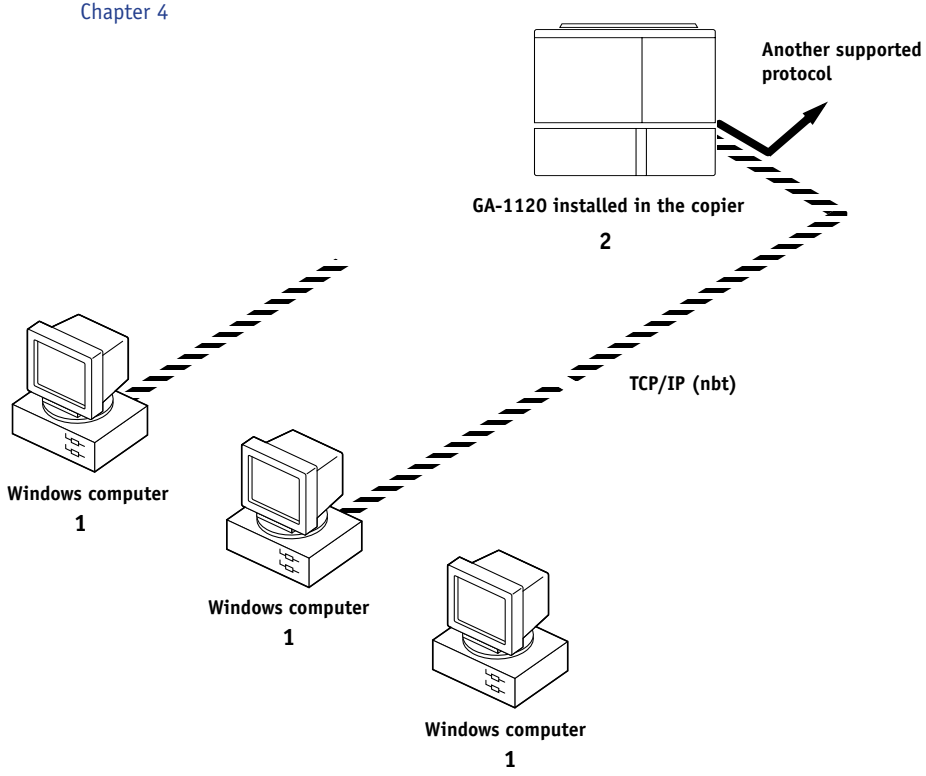
For running Fiery utilities and WebTools

A Windows computer with TCP/IP loaded.

Windows computers using Windows printing

Key to setup:

1 Windows computer	*User Software Installation Guide*
2 GA-1120 Setup	Chapter 4



TCP/IP (nbt) protocol

For Windows printing

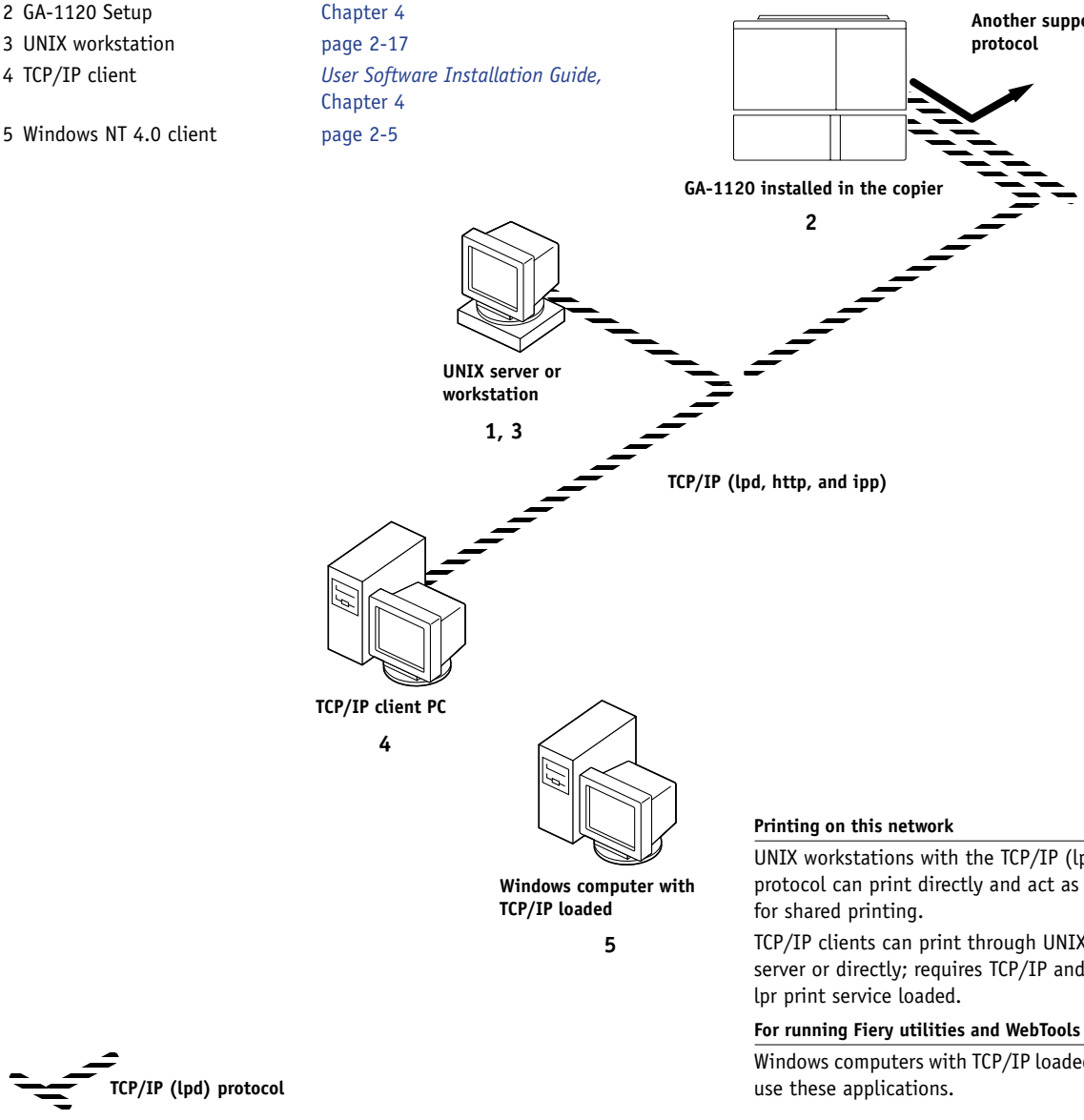
Windows (SMB) printing enabled on the GA-1120

Windows NetBios and TCP/IP enabled on the computer

UNIX workstations and Windows computers on a TCP/IP network

Key to setup:

1 UNIX server/host	page 2-17
2 GA-1120 Setup	Chapter 4
3 UNIX workstation	page 2-17
4 TCP/IP client	*User Software Installation Guide*, Chapter 4
5 Windows NT 4.0 client	page 2-5



Printing on this network

UNIX workstations with the TCP/IP (lpd) protocol can print directly and act as host for shared printing.

TCP/IP clients can print through UNIX server or directly; requires TCP/IP and the lpr print service loaded.

For running Fiery utilities and WebTools

Windows computers with TCP/IP loaded can use these applications.

Connecting network cable to the GA-1120

In this section, the back panel of the GA-1120 is illustrated, followed by information for connecting to the Ethernet board.

Back view of the GA-1120

Illustration TBD

RJ-45 Ethernet (10/100Base T)

Not used

Ethernet connection

For Ethernet connections, the GA-1120 supports Unshielded Twisted Pair (UTP) cabling, defined as Category 5 for use with 100BaseT; or as Category 3, Category 4, or Category 5 for use with 10BaseT. The cable uses an 8-pin RJ-45 connector that plugs into the RJ-45 socket on the GA-1120.

NOTE: The 100BaseT type supported by the GA-1120 is 100BaseTX, also known as Fast Ethernet. If an Ethernet hub is used, it must be a 100BaseTX hub. The term "100BaseT" is used to refer to 100BaseTX.

TO CONNECT TO THE ETHERNET BOARD

- **Connect the network cable to the RJ-45 connector on the back of the GA-1120.**

  You must use a Category 5 unshielded twisted pair cable network cable for 100BaseT.

Chapter 2: Setting up Network Servers

This chapter describes environments that typically include one or more network servers—Novell NetWare servers and Windows NT 4.0/2000 servers—that share printing to the GA-1120. It describes setting up servers that use IPX/SPX or TCP/IP protocols for communicating with the GA-1120. In addition, it includes guidelines for setting up direct communication from Windows NT 4.0/2000/XP workstations or UNIX workstations, where a network server is optional. This chapter also outlines the requirements for users to print to the GA-1120 and run Fiery utilities and WebTools.

The GA-1120 can accept jobs concurrently from NetWare, Windows NT 4.0/2000, and AppleShare servers, as well as jobs sent directly from Windows NT 4.0/2000/XP or UNIX workstations. Because AppleShare servers require no special configuration, they are not discussed in this chapter, except for use in a Windows NT 4.0/2000 environment (see "GA-1120 on a TCP/IP network with Windows NT 4.0/2000/XP" in the following section).

If your network is based on Windows NT 4.0/2000, proceed to the following section. For information on UNIX workstations, proceed to page 2-17.

GA-1120 on a TCP/IP network with Windows NT 4.0/2000/XP

When a Windows NT 4.0/2000/XP computer is configured to connect to the GA-1120 using TCP/IP, it can print directly to the GA-1120. If the computer shares the printer over the network, it is acting as a print server to Windows NT 4.0/2000/XP and Windows 9x/Me clients. Client computers print to the GA-1120 by printing to the Windows NT 4.0/2000 print server. You can then monitor and control printing at the Windows NT 4.0/2000 server computer.

Typical system combinations are:

- Print server running Windows NT 4.0/2000 Server; clients running Windows NT 4.0/2000/XP Workstation and Windows 9x/Me
- Print server running Windows NT 4.0/2000/XP Workstation and clients running Windows 9x/Me

With TCP/IP protocols loaded, you can run Fiery utilities and WebTools from a Windows computer.

The Windows NT 4.0/2000 server can also use AppleTalk protocols to print to the GA-1120 as an alternative to TCP/IP.

NOTE: When you create a printer to share with AppleTalk users, do not "capture" the printer. Capturing the printer forces all users to print to the server, rather than directly to the printer. If you capture the printer, GA-1120 print connections will not appear in the Mac OS Chooser.

Tips for experts—Windows NT 4.0/2000/XP with TCP/IP

Setting up printing from Windows NT 4.0/2000/XP using TCP/IP protocols is similar to setting up UNIX workstations with TCP/IP. When TCP/IP network connections are made from Windows NT 4.0/2000/XP workstations, note the following:

- **Make sure you have a valid IP address for the GA-1120 and any workstations that will print to it or run the Fiery utilities.**
- **In GA-1120 Setup, enable TCP/IP and enter the IP address, subnet mask, and gateway address for the GA-1120.**

  You can enter these addresses manually or use DHCP, RARP, or BOOTP protocols to assign them dynamically.
- **Make sure the GA-1120 name and address are listed in a domain name server (DNS) or hosts name database used by your system.**
- **Make sure the system host table includes the correct internal name for the GA-1120 as a remote printer.**

  For more information, see page 2-18.
- **For Windows NT 4.0/2000/XP, install the appropriate printer driver files on the Windows NT 4.0/2000 server.**

  For more information, see the *User Software Installation Guide*.
- **Repeat the installation for all users who print to the GA-1120.**

  Each server and workstation running the Fiery utilities with TCP/IP also needs the TCP/IP protocol and the Fiery utility software.

Configuring a Windows NT 4.0/2000 server to communicate with the GA-1120

To configure a Windows NT 4.0/2000 server to communicate with the GA-1120, follow these general steps. More detail is provided in subsequent sections in this chapter and in your Microsoft documentation.

- Load the TCP/IP network protocol on the server and configure it with an IP address, subnet mask, and gateway.
- Enter the host name of the GA-1120 in the host database used by your system (see page 2-4).
- Perform GA-1120 Setup.
- On the Windows NT 4.0/2000 server, create a printer for each GA-1120 print connection, install the appropriate printer drivers, and (optionally) share the printer on the network (see page 2-5).
- Enter the host name and remote printer name of the GA-1120 in the printer connection. For more information, see page 2-18.
- If the Windows NT 4.0/2000 server is also a workstation, install Fiery utilities (see the *User Software Installation Guide*).

Adding the GA-1120 to the TCP/IP network

If your TCP/IP network consists of Windows NT 4.0/2000 servers, and Windows NT 4.0/2000/XP clients, follow the procedures in this section. If the network also includes UNIX workstations, also see the procedures on page 2-18.

TO ADD THE GA-1120 TO A TCP/IP NETWORK WITH A WINDOWS NT 4.0/2000 SERVER

1. **Register the IP address of the GA-1120 in the host name database used by your system.**

   For installations that do not have a network administrator or central host name database, add the GA-1120 to the hosts file on the Windows NT 4.0/2000 server. Also add it to the hosts file on any workstations that have TCP/IP loaded and will use the Fiery utilities.

   The Windows NT 4.0/2000 hosts file provides compatibility with the UNIX hosts file. The hosts file is used as a local Domain Name Services (DNS) equivalent. It has the same format as the /etc/hosts file on UNIX servers. The format of the hosts entry is:

   IP Address<TAB>host name<TAB>#comments

   where **<TAB>** indicates that you press the Tab key.

   To determine the IP address and server name of your system, print a Configuration page (see page page 7-10).

   NOTE: If the GA-1120 has already been defined in an /etc/hosts file or equivalent host name database on a UNIX workstation on your network, we recommend you use the same host name here as you used for the name of the remote printer in the /etc/printcap file.

2. **Perform GA-1120 Setup to support TCP/IP printing.**

   Enter the options in Protocol Setup (IP address of the GA-1120, subnet mask, and gateway address).

Installing the GA-1120 as a shared printer

The first step in creating a printer is installing the printer driver files, which give your applications access to printer features. You can use the installation instructions in the *User Software Installation Guide* for every workstation that will print directly and independently to the GA-1120. However, if you are an administrator running a Windows NT 4.0/2000 server, or Windows NT 4.0/2000/XP computer, you can also create a printer and share it with clients on the network. This allows clients who do not have permission to establish an independent network connection to the GA-1120 to print through the server.

You can specify sharing of the printer during installation of the GA-1120 printer files. If you have not yet installed the GA-1120 printer files on the Windows NT 4.0/2000 print server computer, do so now, following the instructions in the *User Software Installation Guide*. During installation, enter the information necessary to share the GA-1120.

If you have already installed the GA-1120 printer files on the computer you are using as an NT 4.0/2000 print server, see your Windows documentation for information about sharing the GA-1120.

If more than one GA-1120 print connection is published (for example, if both the Print queue and the Hold queue are published), you may want to create a printer for each print connection, so you and other users can print to each connection directly. When prompted to specify the printer name, enter a name that indicates the GA-1120 print connection.

Configuring clients of a Windows NT 4.0/2000 server

Each client of a Windows NT 4.0/2000 server is already using a network protocol to communicate with the server. Each client can print to the GA-1120 if it has been shared by a Windows NT 4.0/2000 server, or Windows NT 4.0/2000/XP computer. In that case, the client does not have to use the same network protocol to connect to the Windows NT 4.0/2000 server as the server uses to communicate with the GA-1120.

To connect and print to the GA-1120 shared by a Windows NT 4.0 server

- **For Windows 9x/Me clients: Before printing, double-click the Windows NT 4.0/2000 server icon in the Network Neighborhood window, and then double-click the printer name.**

  You are prompted to set up the printer. When you choose to set it up, the Add Printer Wizard dialog box appears. Follow the procedures in the *User Software Installation Guide*.

- **For Windows NT 4.0 Workstation clients: Before printing, connect to the print server computer and select the GA-1120. Right-click and choose the Open command.**

  When prompted, click Yes to have Windows set up the printer.

- **For Windows 2000/XP clients: Before printing, install the printer driver with the User Software CD and configure the port.**

  After clients have selected the printer, they can choose it from the Print Setup, Page Setup, or Print dialog box of their application. Clients can change printing options for their own job, but printer properties appear dimmed, and unavailable for changing. When a client chooses Print, the job is transmitted to the Windows NT 4.0/2000 print server, and from there to the selected print connection on the GA-1120. The job is listed in the Print Manager on the client workstation, and the administrator can track it in the GA-1120 window in the Print Manager on the Windows NT 4.0/2000 print server.

Configuring Windows computers without a Windows NT 4.0 server

If your network does not have a Windows NT 4.0/2000 server, Windows 9x/Me and Windows NT 4.0/2000/XP workstations can still print to the GA-1120. This method of printing is called Windows, or SMB printing. In this type of network environment, computers running Windows 9x/Me and Windows NT 4.0/2000/XP Workstations operate in a peer-to-peer environment and communicate directly with the GA-1120 when users send print jobs.

Many of the same prerequisites for setting up printing through a Windows NT 4.0/2000 server also apply to setting up Windows printing where a server is not present. The prerequisites are summarized in the following list, and you can find more detail in your Microsoft documentation.

- **Print a Configuration page (see page 7-10).**

  Use the information on this page to determine the current GA-1120 settings.

- **Load the TCP/IP network protocol on the computer (for Windows 9x/Me, load File and printer sharing for Microsoft Network. For Windows 2000/XP load Client for Microsoft Networks).**

- **Verify the Workgroup name of the computer in the Windows Network control panel.**

  Make sure the Workgroup name is the same as the one listed in GA-1120 Setup.

- **For Windows 9x/Me, in the File and printer sharing for Microsoft Network Properties dialog box, specify Automatic or Enabled for Browse Master, and select Yes for LM Announce.**

- **For Windows 2000/XP, in the Client for Microsoft Networks Properties dialog box, configure the computer to allow file sharing, and then restart the computer.**

- **Ping the GA-1120 to verify TCP/IP communication is successful (see page 2-19).**

GA-1120 on a NetWare 3.x, 4.x or 5.x network

The NetWise™ features built into the GA-1120 support the following network operating environments:

•NetWare 4.x or 5.x—NDS (Novell Directory Services) •NetWare 3.x—bindery services

•Servers running NetWare 4.x or 5.x in bindery emulation mode

For Ethernet-based networks, the IPX/SPX protocol is supported.

NOTE: Setting up a NetWare environment correctly requires the presence and active cooperation of the Novell network administrator. You must have administrator privileges on the network to create new NDS or bindery objects.

The term "bindery server" is used to refer to a Novell file server running NetWare 3.x or running NetWare 4.x, 5.x in bindery emulation mode. The term "NDS" is used to describe components of a NetWare operating system running NetWare 4.x or 5.x in native mode.

NetWare clients print to the GA-1120 through the Novell network server. Server setup and client network setup are outlined in this chapter, client printing setup is described in the *User Software Installation Guide*, and printing is described in the *Printing Guide*.

The GA-1120 can receive print jobs from NetWare clients over Ethernet network topologies. During GA-1120 Setup, you select the frame type or types that will be used for communication between the GA-1120 and network servers. Frame type refers to the format of a communications packet; frame types are specified in a startup file when the NetWare server (or any other workstation) loads its network drivers.

Tips for experts—IPX networks

Setting up the GA-1120 is similar to setting up any other PostScript printer on the network.

The GA-1120 with IPX connections has the following characteristics:

- **A minimum connection to the GA-1120 consists of a NetWare file server, a NetWare print server, and a NetWare queue. Both NetWare 3.x and NetWare 4.x are supported directly. NetWare 4.x is also supported through bindly emulation.**
- **A single directory tree and up to eight bindery servers can be configured simultaneously.**
- **The GA-1120 looks for print jobs on one NetWare print server per bindery server.**
- **Each print server can store jobs for any print connection on the GA-1120.**

Overview of IPX printing to the GA-1120

NetWare file servers support the creation of print queues, which are storage areas for print jobs. When a client on a remote computer decides to print, the job is directed to a print queue on the NetWare file server and spooled to the NetWare server disk, freeing up the client workstation.

You must give the NetWare queue names a specific extension corresponding to the GA-1120 print connection, as follows:

_print
_hold
_direct

NOTE: These extension names must be in English and in all lowercase letters.

You do not need to rerun Setup when you add or remove a NetWare queue; however, you should restart the GA-1120 after you create or remove a queue.

When the GA-1120 is configured to connect to a NetWare server, it polls the NetWare server for jobs in each of its queues. If jobs are found, they are automatically transferred over the network to the matching connection on the GA-1120. For example, jobs from the NetWare queue with the _print extension are sent to the GA-1120 Print queue. While a job is processed and printed, a record of the job is being created. You can access the Job Log containing these records at any time.

Configuring a NetWare 4.x server for printing

The following sections explain how to set up a NetWare file server so networked users can print to the GA-1120 from their workstations, and the GA-1120 can obtain print jobs from the NetWare server.

For *each* NetWare file server that you configure, follow these general steps. More detail is provided in subsequent sections and in your NetWare documentation.

- Make sure the server is connected to a functioning IPX network.
- Log in as the Supervisor on a PC connected to the NetWare file server.
- For NetWare 4.x installations, set up an NDS connection (see page 2-12).
- For NetWare 4.x in emulation mode, set the bindery context (see page 2-12).
- For NetWare 3.x and for NetWare 4.x in bindery emulation, set up a file server, print server, and print queue for the GA-1120 (see page 2-13).

With bindery services, you can route all GA-1120 print jobs through the same NetWare file server, or you can configure more than one file server to handle GA-1120 jobs.

The functions you perform on the Novell server, the GA-1120, and the client workstation are summarized in the following tables. The first table applies to NDS connections, and the second to bindery connections. Complete the operations in the left column, then the center column, then the right column.

Configuring an NDS connection

Abbreviations:

FS = file server

PS = print server

PQ = print queue (on the NetWare server)

On NDS FS	In Setup from Command WorkStation	On client workstation
In NETADMIN: Create NDS PQs Create NDS printer and assign PQs Create PS and assign the printer Configure users of the PQs	**Port Setup** Ethernet Setup **Protocol Setup** IPX/SPX Setup—select frame types **Service Setup** PServer Setup and NDS Setup Select Root Browse to select PS Specify PQ search root (optional) Set Polling Interval	Install user software. For printing: Connect client to PQs that you set up on the NetWare FS (associated with the PS selected in NDS Setup). For running Fiery utilities: Configure the connection to the GA-1120.

Configuring a bindery connection

On Bindery FS	In Setup from Command WorkStation	On client workstation
In PCONSOLE: Select NetWare FS (up to 8) For each FS: Configure PS Configure PQ Configure users of the PQ	**Port Setup** Ethernet Setup **Protocol Setup** IPX/SPX Setup—select frame types **Service Setup** PServer Setup and Bindery Setup Add FS (up to 8) Set Polling Interval	Install user software. For printing: Connect client to PQs that you set up on the NetWare FS (associated with the PS selected in Bindery Setup). For running Fiery utilities: Configure the connection to the GA-1120.

Setting up an NDS connection

In NDS, all NetWare entities (objects) are organized in a hierarchical tree structure. Objects have a name, properties, and a context that defines the location of the object in the directory tree. For the GA-1120, you are mainly concerned with defining a printer, a print server object, and one or more print queue objects. Objects are created in NetWare administrator programs such as PCONSOLE, NETADMIN, or NetWare Administrator.

The top-level tree object is known as the [Root] object. The name of the [Root] object is also the name of the tree. Below the [Root] are other objects: either containers (which consist of other objects) or leaf objects (which do not contain other objects). Access to objects is controlled by rights that are defined as properties of each object. Rights are established by network administrators.

Setting the NetWare 4.x bindery context

You can connect only one directory tree to the GA-1120. If you need to connect additional NetWare 4.x servers, you can do so by using bindery emulation. You can connect up to eight bindery servers to the GA-1120.

NOTE: The file server you select must not be in the same tree as the one you selected in NDS Setup.

In order to set up the NetWare 4.x server in bindery emulation mode for printing to the GA-1120, the network administrator must do the following:

- Determine the Directory Services path to the container in which the print server and the print queue for the GA-1120 will be created.

  The container defines the “bindery context” for your network structure.

- Edit the network startup file to set the bindery context.
- Activate the new bindery context.

Setting up a NetWare print queue for bindery

For NetWare 3.x and for NetWare 4.x in emulation mode, the NetWare print server and print queue for the GA-1120 are created and configured from NetWare Print Console (PCONSOLE), a NetWare utility that is stored in the NetWare PUBLIC directory.

As with NDS, you can create several NetWare entities on a Novell server, and then you can select them in Network Setup (see page 4-21).

Setting up NetWare Windows clients for printing

Before setting up client workstations for printing, perform Network Setup (see page 4-12), and verify that the settings reflect the entities you created in the NetWare administrator utilities (see page 2-10).

NOTE: For printing to the GA-1120, connect all Windows clients to a NetWare server and permit them to connect to the Netware print server or servers on which you defined a NetWare print queue for the GA-1120.

After the Novell server and the GA-1120 have been set up, client setup consists of:

- Installing the networking protocol, binding it to the network adapter card, and permitting the client to log in to the NetWare file server.

  On Windows 9x/Me workstations, load both the IPX/SPX-compatible protocol and the Client for NetWare Networks from the Network Control Panel.

  On Windows NT 4.0/2000/XP workstations, install Client Services for NetWare. Use the CSNW option in the Control Panel to set printing options and specify a preferred NetWare server.

- Setting up the GA-1120 as a PostScript printer by installing a PostScript printer driver and the GA-1120 PPD (PostScript printer description).

- Adding a network port and connecting the workstation to one or more NetWare queues that have been defined for the GA-1120.

- Installing GA-1120 software, such as color reference files.

  For details, see the *User Software Installation Guide*.

GA-1120 on a NetWare 5.x network with NDPS

The GA-1120 supports printing over a NetWare 5.x network running either the TCP/IP protocols or the IPX protocol. For pure IP printing, the GA-1120 takes advantage of features in NDPS (Novell Distributed Print Services). For IPX printing, the GA-1120 supports the PServer service in Bindery emulation or through NDS (Novell Directory Services). For more information on IPX-based printing, see "GA-1120 on a NetWare 4.x or 5.x network" on page 2-8.

NOTE: Setting up a NetWare environment correctly requires the presence and active cooperation of the Novell network administrator. You must have administrator privileges on the network to create new NDS or bindery objects.

NDPS is not like earlier queue-based versions of NetWare printing. Instead, you use an NDPS Manager and a Printer Agent, which control the tasks previously handled by a print queue, print server, and spooler. You can also make the printer driver available for clients to download from Windows 9x/Me and Windows NT 4.0/2000/XP computers.

During GA-1120 Setup, you select the frame type or types that will be used for communication between the GA-1120 and network servers. Frame type refers to the format of a communications packet; frame types are specified in a startup file when the NetWare server (or any other workstation) loads its network drivers.

Tips for experts—NetWare 5.x networks

Setting up the GA-1120 in an NDPS environment is similar to setting up any other PostScript printer on the network. Refer to the following information when setting up the GA-1120 in such an environment:

- **Make sure you have a valid IP address for the GA-1120 and for any workstations that will print to it or run Fiery utilities.**
- **In GA-1120 Setup, enable TCP/IP and enter the IP address, subnet mask, and gateway address for GA-1120. You can enter these manually or use DHCP, RARP, or BOOTP protocols to assign the addresses dynamically.**
- **Bidirectional communication features in NDPS are not supported on the GA-1120.**

Configuring a NetWare 5.x server for printing

Before you begin

The following procedure assumes NDPS has been installed during NetWare 5.x installation and that a Broker is running on the server. Unless you have manually unloaded the Broker, it loads and runs when you install NDPS. Make sure you are using NetWare 5.x Service Pack version 3.0 or later, and Novell Gateway version 2.0.3 or later. Finally, create an NDPS Manager. For more information, see your NetWare documentation.

In GA-1120 Setup, make sure you have enabled TCP/IP (page 4-16) and LPD printing (page 4-21) on the GA-1120. You can ping the GA-1120 (page 2-19) to verify that TCP/IP communication is successful.

Setting up the GA-1120 printer driver

You first need to create a directory forWindows NT 4.0/2000/XP or a folder for Windows 9x/Me in the NetWare server for NDPS to install the corresponding printer driver files from the User Software CD.

TO SET UP THE PRINTER DRIVER FOR WINDOWS NT 4.0/2000/XP

1. **Log on to the Novell file server as a supervisor or Administrator.**
2. **In the SYS:ndps\resdir\Prndrv\NT4/2000/XP directory, create a directory called Fiery.**
3. **From the User Software CD, copy the contents of the ENGLISH\PS_DRVR\WIN_NT/2000/XP folder to the Fiery directory.**

TO SET UP THE PRINTER DRIVER FOR WINDOWS 9X/ME

1. **Log on to the Novell file server as a supervisor or Administrator.**
2. **In the SYS:ndps\resdir\Prndrv\Win9x/Me directory, create a folder called Fiery.**
3. **From the User Software CD, copy the contents of the ENGLISH\INSTALRS\PS_DRVR\WIN_9x/Me folder to the Fiery directory.**

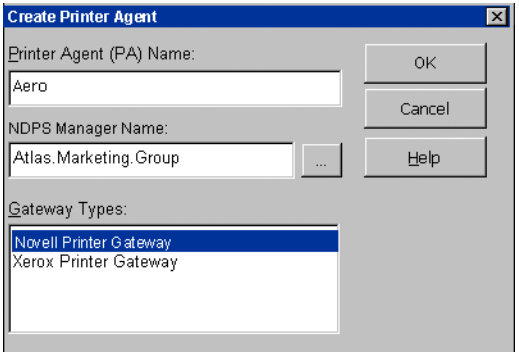
Setting up the GA-1120 on a NetWare 5.x network

Depending on the security needs at your organization, you can set up the GA-1120 as a Public Access printer or a Controlled Access printer. The following procedure describes setting up a Public Access printer. You can then convert the printer to Controlled Access if necessary. For more information, see your NetWare documentation.

TO SET UP THE GA-1120 AS A PUBLIC ACCESS PRINTER

1. **In NetWare Administrator, double-click the NDPS Manager object you created.**
2. **In the Details window for the NDPS Manager object, click Printer Agent List.**

   The list of Printer Agents appears.
3. **Click New.**
4. **In the Printer Agent (PA) Name field, enter a name.**



5. **Under Gateway Types, select Novell Printer Gateway, and click OK.**
6. **In the Configure Novell PDS for Printer Agent dialog box, select "((NONE))", and click OK.**
7. **In the Configure Port Handler dialog box, choose "Remote LPR on IP" as the connection type, and click Next.**
8. **For Host Address, enter the IP address of the GA-1120.**

9. **For Printer Name, enter the name of the GA-1120 print connection you want users to print to, and click Finish.**

   This name must be either print or hold.

10. **In the Select Printer Drivers dialog box, select the printer driver for Windows 9x/Me and the driver for Windows NT 4.0/2000/XP.**

11. **Click Continue, and then click OK.**

GA-1120 on a network with UNIX workstations

When a UNIX workstation is configured with the lpd protocol and connected to the GA-1120 over a TCP/IP network, it can print directly to the GA-1120.

Setting up UNIX workstations requires an administrator with root privileges. After the initial configuration, UNIX users simply submit print jobs to a named printer.

The job management tools, along with the other Fiery utilities and WebTools, are unavailable on the UNIX platform. A Windows or Mac OS computer on the same network as the UNIX computer that is set up to use TCP/IP for printing to the GA-1120 can use the job management tools to manage print jobs that originate from all workstations on the network.

Tips for experts—UNIX workstations

Setting up the GA-1120 in a UNIX environment has the same requirements as setting up any printer or new device:

- **A distinct IP address is required for the GA-1120 as well as for each workstation on the network.**
- **A name must be selected for the GA-1120 that goes with the IP address.**
- **The IP address of the GA-1120 must be registered for the network in a host database, and also on the GA-1120 itself.**
- **At least one print connection (Print or Hold) must be published.**

The following information applies especially to the GA-1120:

- **The GA-1120 is a printer controller that understands lpd protocols.**
- **The GA-1120 has a remote printer name you must use in order to communicate with it successfully.**

  For details, see the next section.

Important note about the remote printer name

Whichever UNIX system you use, the name used for the remote printer (or rp in the /etc/printcap file) in configuring the GA-1120 must be one of the following:

```
print
hold
```

The remote printer name is also used when setting up your Windows NT 4.0/2000/XP Workstation or Windows NT 4.0/2000 Server to connect to the GA-1120 over TCP/IP. Enter the remote printer name when you set up your Windows NT 4.0/2000 printer, as the "Name of printer or print queue on that (lpd host) server" in the Add LPR Compatible Printer dialog box.

For the Windows 2000/XP printer driver, enter the remote printer name for Queue Name under LPR Settings in the Configure Standard TCP/IP Port Monitor dialog box.

Setting up the GA-1120 on TCP/IP networks

Every machine (host) on a TCP/IP network, including the GA-1120, must have a unique 32-bit internet address (IP address). Contact your network administrator to obtain an address for the GA-1120. Workstations on a TCP/IP network can print directly to the GA-1120 as a remote printer, or can print to a Windows NT 4.0/2000 server or UNIX workstation acting as a print server. Since the GA-1120 spools jobs and acts as a print server, there is no advantage in placing another print server between a workstation and the GA-1120. If you choose to do so, however, there is no difference in setup except that a client machine does not have its own spooling area.

To set up GA-1120 printing on UNIX systems

1. **Specify the appropriate settings in GA-1120 Server Setup.**

   To access GA-1120 Setup, see page 4-8.

2. **Specify the appropriate settings in GA-1120 Network Setup.**

   Enter a valid IP address, subnet mask, and gateway address for the GA-1120.

3. **Specify the appropriate settings in GA-1120 Printer Setup.**

   Publish the Print queue and/or Hold queue.

To set up TCP/IP for communication with the GA-1120

1. **A supervisor (with root login) must add the GA-1120 to the network's IP host table or other system database of network printers.**

2. **In the file or utility used by your network, specify the remote printer name, the print server protocol, the queue, and the spool file for the GA-1120 name you assigned.**

3. **Make the GA-1120 available as a printer to other network users.**

4. **To verify the TCP/IP connection, ping the IP address or the host name. From any computer on the network, at the command prompt, type:**

   ping <IP address>

   Type the GA-1120 IP address assigned in GA-1120 Network Setup.

   After the GA-1120 is set up as a network printer, you can also ping the name you gave to the GA-1120:

   ping <hostname>

   The server should respond with a message such as

   Reply from <IP address> ...

   Some systems will respond with a continuous display of output from the IP address. To stop the output, type Control-C. You can use the ping command at any time.

TO PRINT TO THE GA-1120

- **On a UNIX system running SunOS 4.x or other BSD-based variant, use the lpr command to send a job to the GA-1120.**
- **On a UNIX system running Solaris 2.x or any System V implementation of UNIX, use the lp command to send a job to the GA-1120.**
- **Windows NT 4.0/2000/XP users with the TCP/IP protocol loaded can send print jobs to the GA-1120 from their applications or from a command prompt.**

  When Windows NT 4.0/2000/XP users print from applications, they can set print options with the driver but not from the UNIX command line.

Managing print jobs

UNIX network administrators can use UNIX utilities for viewing the list of jobs, and for printing and removing jobs that are spooled on UNIX servers. If the network includes a Windows NT 4.0/2000/XP workstation that has TCP/IP protocols loaded, you can use Command WorkStation or Fiery Downloader to download fonts and files.

You can also use the job management tools to manage jobs from remote workstations. For more information, see the *Job Management Guide*.

Even without the Fiery utilities, you can:

- Set up the GA-1120 to print a log of printed jobs automatically after every 55 jobs (see Job Log Setup on page 4-44).
- Print a Job Log manually at any time from the Command WorkStation Functions menu (see the *Job Management Guide*).

Chapter 3: Preparing for GA-1120 Setup

To prepare for printing at your site, you must do some initial GA-1120 configuration, or Setup, to specify the network environment and the kind of printing you will do. Before you perform Setup, you must decide the levels of access you will implement for your site. Administrators and operators must also understand how GA-1120 system software is structured in order to configure and use the GA-1120 system correctly.

Levels of access and control

When you configure the GA-1120 during Setup, you (as system administrator) implement a particular level of control by enabling or not enabling print connections, passwords, and access to WebTools. The level of control you implement can range from minimum to moderate to maximum—or none at all.

- Minimum control might be appropriate for a small site where anyone on the local network can control all printing and GA-1120 functions. Although there may be an administrator or operator charged with certain duties, all users have equal access to the system and job management tools.
- Maximum control might be appropriate for a high-volume printing environment where an administrator or operator controls the job flow and all printing; jobs sent by users are spooled (stored) to the GA-1120 disk until the operator decides it is time to print them. In addition, only the administrator and operator have access to job management tools. This is the recommended level of control.

NOTE: The term "job management tools" is used in this manual to refer to Command WorkStation, Fiery Spooler, and Fiery WebSpooler.

GA-1120 print connections

The GA-1120 supports three print connections: Hold queue, Print queue, and Direct connection. These print connections can be enabled, or "published," to users on the network when you configure Printer Setup. All published connections are constantly checked for the presence of jobs. The Print queue and Direct connection give remote users more direct access to the GA-1120 than the Hold queue. Therefore, do not publish the Print queue and the Direct connection in environments where maximum control is desired.

In addition, you can enable the Printed queue, which is a storage area for the most recent jobs from the Print queue. The Printed queue makes it convenient to reprint those jobs. In Setup, you can enable the Printed queue and specify the maximum number of jobs retained in the queue (see page 4-11). Reprinting jobs in the Printed queue requires the job management tools.

To use the Fiery utilities and WebTools, you must enable at least one of the print connections.

Hold queue

Jobs sent to the Hold queue are spooled to the GA-1120 hard disk for printing at a later time or for repeated printing. Because the Hold queue is a storage place, jobs sent to it cannot proceed through the printing process until the operator intervenes using the job management tools (see the *Job Management Guide*).

Print queue

This is the standard GA-1120 queue. Jobs sent to the Print queue are processed and printed in the order they are received. Jobs prioritized by an operator with the job management tools and jobs sent via the Direct connection can take priority over jobs sent to the Print queue.

Direct connection

The Direct connection transmits jobs directly to the GA-1120, but only when the GA-1120 is Idle. If the GA-1120 is busy, the job remains at the user workstation until the GA-1120 is ready. The job is then processed as soon as the previous job is finished and before the next queued job is processed.

Jobs sent to the Direct connection are not stored on the GA-1120 hard disk, and cannot be selected for reprinting, moving, or deletion. Therefore, the Direct connection provides a measure of security for sensitive files. Jobs sent to the Direct connection *do* appear in the Job Log, for accounting purposes.

NOTE: To download fonts to the GA-1120, you must publish the Direct connection.

NOTE: The Direct connection is not supported for LPR printing.

Passwords

You can implement passwords as a means of controlling access to GA-1120 functions. The GA-1120 allows you to set the following passwords in Setup:

- Administrator—from the Control Panel or Command WorkStation
- Operator—from Command WorkStation or WebSetup

NOTE: By default, *no* passwords are set on the GA-1120. If you do not specifically set passwords, all users will have administrator privileges, which include access to important functions such as Setup (including setting passwords), and job control. We *strongly recommend* that you set *at least* an Administrator password to protect the GA-1120 from random or accidental changes to Setup.

Administrator privileges

Administrator control, which confers control of Setup, is the highest level of control, since the person who has access to Setup can control the printing and job management environment. Administrator privileges include publishing print connections, setting passwords, deleting fonts, controlling print jobs from the job management tools, overriding job settings, clearing the GA-1120 of all job data, performing calibration, defining default color profiles, and setting default values for print options.

When performing a function from the GA-1120 Control Panel that prompts you for the Administrator password, you must enter it promptly. Otherwise, the GA-1120 Control Panel returns to Idle, and you must start over again.

Operator privileges

Operator control includes control of print jobs from the job management tools, including the ability to override job settings.

Guest privileges (no password)

No password is needed for a user to log in as a Guest from the job management tools. A Guest can view the status of active jobs but cannot make changes to jobs or to the GA-1120 state.

WebTools

The GA-1120 can support Internet or intranet access with WebTools from Windows computers. To enable use of WebTools, you must do the following in Setup:

- Enable TCP/IP.
- Set an IP address, subnet mask, and gateway address for the GA-1120.
- Enable Web Services.

For more information, see Chapter 6.

You can set passwords to control access to WebTools features. If you do not specifically set these passwords, all users have access to all WebTools functions (see page 3-3). WebTools include Status™, WebSpooler™, WebLink™, WebScan™, WebDownloader™, WebSetup™, and Installer™.

Status

The Status WebTool provides you with current information on the jobs processing and printing on the GA-1120. It is not affected by passwords. For more information, see the *Printing Guide*.

WebSpooler

The WebSpooler interface is very similar to that of Command WorkStation. It allows remote users to preview, manipulate, reorder, reprint, and delete jobs currently spooling, processing, or printing on the GA-1120. It also allows the administrator and operator to edit and merge jobs (Thumbnails A and B) and view, print, or delete the Job Log.

WebSpooler access can be controlled by setting an Operator password in Setup. If you set a password, only users with that password can manipulate jobs from WebSpooler. A user who does not have the password can still log in to WebSpooler as a Guest with view-only access (see page 3-3). For more information, see the *Job Management Guide*.

WebLink

WebLink provides all users with a link to an address on the Internet. To change the WebLink Internet address, see page 6-3. This function requires the Administrator password, if one has been set (see "Passwords" on page 3-3).

NOTE: If you do not set the Administrator password, any user can change the WebLink address, which affects all users. For this reason, we *strongly recommend* that you set an Administrator password.

WebScan

With WebScan, you can retrieve scanned documents from a computer on the Internet or your organization's intranet. For more information, see the *Printing Guide*.

WebDownloader

WebDownloader allows you to print PostScript, EPS, PDF, and TIFF files directly to the GA-1120 without first opening the file in an application.

WebSetup

WebSetup allows you to view and modify GA-1120 Setup options from a remote workstation. For more information, see Chapter 5.

NOTE: WebSetup is supported on Windows computers only.

Installer

The Installer WebTool allows users to download installers for printer drivers directly from the GA-1120. It is not affected by passwords. For more information, see the *User Software Installation Guide*.

Control level scenarios

Typical scenarios of access and control, ranging from minimum control to maximum control, are described in this section. Choose the scenario that best matches your site requirements, and then refer to the corresponding number in the table for guidance on how to configure your system for those requirements.

NOTE: We *strongly recommend* that you set *at least* an Administrator password to prevent unauthorized changes to system settings.

1. **No designated administrator or operator (Minimum control—*not recommended*)**

   All users have equal access to all system functions including Setup, clearing the GA-1120, deleting printer fonts, setting the WebLink address, performing calibration, printing to all GA-1120 print connections, and managing all jobs from the job management tools.

2. **An administrator but no operator**

   Only an administrator can perform Setup, calibration, and other administrator functions, but all other system functions are accessible to all users, including printing to all GA-1120 print connections, and managing all jobs from the job management tools.

3. **An administrator and an operator**

   Only an administrator can perform Setup, calibration, and other administrator functions, and only an operator or administrator can control jobs from the job management tools. Users can print to all GA-1120 print connections.

4. **An administrator and an operator; no WebTool access**

   Only an administrator can perform Setup, calibration, and other administrator functions, and only an operator or administrator can control jobs from the job management tools; users can print to the Hold queue and Print queue, but not to the Direct connection; the operator controls all job flow, but jobs sent to the Print queue may not require operator intervention; no access to WebTools.

5. An administrator and an operator; operator controls all jobs; no WebTool access (Maximum control)

Only an administrator can perform Setup, calibration, and other administrator functions, and only an operator or administrator can control jobs from the job management tools; users can print only to the Hold queue; the administrator and the operator have complete control of job flow; no access to WebTools.

Use these settings in Setup	1 (Minimum)	2	3	4	5 (Maximum)
Enable Direct connection	√	√	√		
Enable Print queue	√	√	√	√	
Enable Web Services	√	√	√		
Set an Administrator Password (*strongly recommended*)		√	√	√	√
Set an Operator password			√	√	√

About Setup

Setup configures the GA-1120 to communicate with other devices and manage print jobs. You must perform Setup the first time you turn on the GA-1120 after new system software is loaded, or any time Server software is reinstalled. An initial Setup using default settings is adequate for allowing users to print to the GA-1120 and to use the WebTools. When your network or user printing environment changes, you can change Setup options accordingly.

The first time you perform Setup, you must use the GA-1120 Control Panel. Configure, at a minimum, Server Setup, Network Setup, and Printer Setup, in that sequence. After the initial Setup, you can change Setup options from the Control Panel (page 4-2) or Command WorkStation. Most Setup options can be set using any of these methods.

NOTE: Configuring and monitoring the Windows NT functions on the GA-1120 require the NA option. For more information, contact your authorized service/support technician.

If you do not configure the remaining Setups, the GA-1120 uses default settings. You need to make settings appropriate for the printing environment at your site.

Network server setup requirements

For Novell, and Windows NT 4.0/2000 (using TCP/IP) networks, you must configure the network servers for printing to the GA-1120 *before* you configure GA-1120 network settings in Setup. For chapter references to information about network server setup, see the diagrams in Chapter 1.

To configure network settings in Setup, you must have a live network connection, so the GA-1120 can query the network for zones, servers, and server-based queues.

Whenever the configuration of the GA-1120, the copier, or the network itself changes at your site, you can alter individual settings to correspond to the changed environment. Changing network or port settings may require that you make changes to other Setup options, as well.

NOTE: You must configure the GA-1120 with the correct Windows NT/2000 domain name. This is especially important for Windows printing, also known as SMB printing.

NOTE: The GA-1120 does not support the Windows 2000 Active Directory Service. When you use the GA-1120 in a Windows 2000 server environment, assign the GA-1120 to a Domain or Workgroup.

Ensuring the copier connection

Complete the following steps *before* you configure the GA-1120 and the workstations that will print to the GA-1120. A service technician will have performed some initial installation.

TO PREPARE FOR GA-1120 CONFIGURATION

1. **Print a copier test page to verify the copier is functioning normally.**
2. **Turn off the copier and connect the interface cable from the copier to the GA-1120.**
3. **To confirm this connection, turn on the copier and the GA-1120, and print a Test Page from the GA-1120 Control Panel.**

   To print a Test Page, press the Menu button on the Control Panel to display the Functions menu. Choose Print Pages, and then choose Test Page.
4. **With both the copier and the GA-1120 turned off, connect the network cable to the GA-1120, as described in Chapter 1.**

   The network should already be installed and operational.
5. **Turn on the copier and then the GA-1120.**

   Proceed to GA-1120 Setup, described in Chapter 4.

Chapter 4: Performing Setup from the Control Panel

Setup is required the first time the GA-1120 is turned on after new system software is loaded. In this initial Setup, you (or the service technician who loads the software) choose the language to use for GA-1120 Control Panel menus and messages. If you do not configure a particular Setup option, the GA-1120 uses default settings. You should make the settings appropriate for the printing environment at your site.

GA-1120 Setup from the Control Panel

Setup performed from the Control Panel configures the GA-1120 to communicate with other devices and manage print jobs sent to it.

Setup provides these groups of options:

- Server Setup to specify system options
- Network Setup to specify all the active network systems that transmit print jobs to the GA-1120
- Printer Setup to specify how print jobs and queues are managed
- PS Setup to specify PostScript settings
- Color Setup to specify color settings
- Job Log Setup to specify how the GA-1120 handles its log of printed jobs

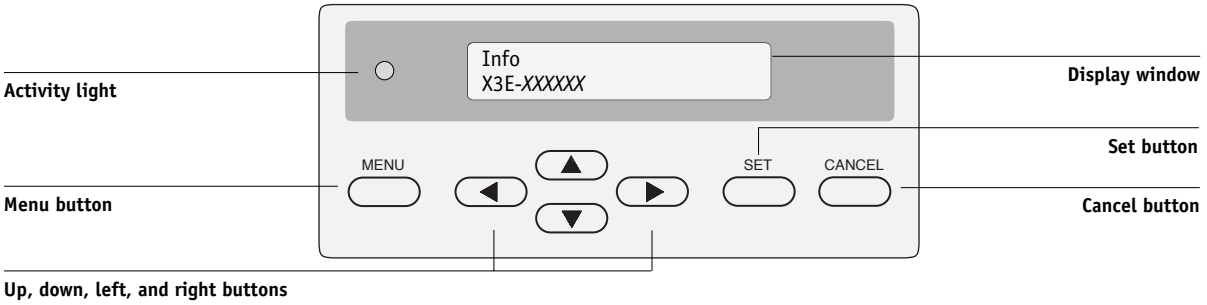
The Change Password option in the Setup menu allows you to create and change the Administrator password on the GA-1120.

The Control Panel on the front of the GA-1120 allows you to set options and view information about jobs printed to the GA-1120. It comprises the following parts:

- Activity light—indicates normal or problem activity
- Set button—select a setting and proceed to the next option
- Display window—shows status information and options for setting up the GA-1120

- Up, Down, Left, and Right arrow buttons—scroll menus, options, and settings
- Menu button—cancels without saving changes; also toggles to the Functions menu

GA-1120 Control Panel



GA-1120 Control Panel

Use the GA-1120 Control Panel (on the left side of the front of the GA-1120) to view status information, print special pages, and set up printing. While most elements in the Control Panel display have counterparts in Command WorkStation, you can view current functions on the Control Panel even when Command WorkStation is not connected to the server or is not running.

Safety warnings

The GA-1120 display window is a liquid crystal display (LCD) made of glass, and it can break. Do not subject it to strong shocks.

If the display window breaks and the liquid crystal material leaks out, do not inhale, ingest, or touch it. If the material gets on your skin or clothing, wash it off with soap and water immediately.

Do not touch or put pressure on the panel. This will change the color of the panel.

Activity light

The activity light indicates the current GA-1120 activity. If the light is:

Solid red	An error has occurred, causing the GA-1120 to be disabled.
Solid orange	An error has occurred, causing printing to be disabled, but the GA-1120 is capable of processing.
Solid green	The GA-1120 is idle.
No light	The GA-1120 is off or starting up.

Buttons

Up, Down, Leftt, and Right arrow buttons	Use these buttons to scroll to different screens in multi-screen lists, select Setup options from a list of available options, and scroll through alphanumeric characters.
Menu button	Press this button to view other screens. Under normal operation, the Control Panel displays the Info, RIP, or Print Status screen with information about the status of the GA-1120. If you press the Menu button, the Functions menu is displayed and you can perform additional operations (see page 4-6). If a job is processing or printing, press the Menu button to cycle among the active screens.
Set button	Selects the currently displayed menu item and proceeds to the next screen.
Cancel button	Use to cancel a process, and to move from the runtime screens to the Functions screen and the Idle screen.

Display window

The display window provides information about the status of the GA-1120, displays menu information, and allows you to view and edit information in the Setup menus.

The status area at the bottom of the display window displays the screen name and highlights one of the icons to indicate what the GA-1120 is doing. Only the icons for the screens currently available appear. The Menu button cycles through the active screens.

The screens are:

Alert Status — If there is a problem with processing a job or printing functions, an error message appears on the Control Panel. For information on error messages, see Appendix A.

Print Status — When the GA-1120 is printing a job, the Print Status screen appears. This screen displays the following:

Cancel Job—Press the top line selection button to cancel the job currently printing.

User name—The name of the user who sent the job currently processing.

Pages/Total—The number of copies of the current job printed and the total number of copies of the job requested.

RIP Status — When the GA-1120 is processing a job, the RIP Status screen appears. This screen displays the following:

Cancel Job—Press the top line selection button to cancel the job currently processing. The GA-1120 cancels the job before printing begins.

Job name—The name of the document currently processing.

User name—The name of the user who sent the job currently processing.

Kilobytes—The size (in kilobytes) of the job processed so far.

NOTE: This number is always displayed in kilobytes; for example, 10MB is displayed as 10000KB.

Info Status — When the GA-1120 is not processing or printing a job, it displays information about the current server and software:

Server Name—The GA-1120 name, as it is configured in Setup.

Status—The current status of the GA-1120. The GA-1120 status can be: Idle, Initializing, Busy, Processing, or Printing.

Megabytes—The space (in megabytes) available on the GA-1120 hard disk, for example, 756MB.

Version—The system software version running on the GA-1120.

Functions — You can press the Menu button to display the Functions menu. Use the Up and Down arrow buttons to scroll through the list. Press the Set button to the right of a command to select that command. For more information, see page 4-6.

Network — The Network icon appears at the lower left of any of the other screens when a job is being sent to the GA-1120 over the network. The Network icon also appears when a remote utility is running.

Functions menu

The Functions menu provides many of the options available from Command WorkStation. Choose the following commands from this menu:

Print Pages

Print special pages from the GA-1120. You can print the following pages from the submenu that appears:

Test Page—A Test Page allows you to confirm that the GA-1120 is properly connected to the copier, and provides color and grayscale samples to troubleshoot problems with the copier or the GA-1120. The following settings are among those listed on the Test Page: Server Name, Printer Model, color settings, calibration information, date and time the Test Page was printed.

Configuration—Prints the Configuration page, which gives the current server and device configuration. This page lists general information about the hardware and software configuration of the GA-1120, the current options for all Setup settings, information about the current calibration, and the Ethernet addresses of the GA-1120.

Job Log—Prints a log of the last 55 jobs. For information on the fields in the Job Log and on printing it in other forms, see the *Job Management Guide*.

Control Panel Map—Prints the Control Panel Map, which is an overview of the screens you can access from the Control Panel.

Color Charts—Prints samples of the RGB, CMY, and PANTONE colors available from the GA-1120.

Font List—Prints a list of all fonts currently on the GA-1120 hard disk.

E-mail Log—Prints an e-mail log listing recent e-mail activity.

Suspend Printing	Suspend communication between the GA-1120 and the copier. You *must* suspend printing if you want to interrupt the current GA-1120 job and use the copier to make copies or print another job first. Jobs continue to process on the GA-1120. After you make the copies, select Resume Printing to continue printing jobs from the GA-1120.
Resume Printing	Resume communication between the copier and the GA-1120 after you have finished making copies or printing other jobs.
Shut Down	Shut down all GA-1120 activity in the correct manner and then restart. Use this option instead of the power switch on the back of the GA-1120. The following options are available from the submenu that appears: Restart Server—Restarts the Fiery system software without shutting down the GA-1120 operating system. Shut Down System—Shuts down the Fiery system software and the GA-1120 operating system. Reboot System—Shuts down and restarts the Fiery system software and the GA-1120 operating system.
Clear Server	Clear all jobs in all server queues, as well as all jobs archived on the GA-1120 hard disk, the index of archived jobs (in the Archive window), all FreeForm masters, and the index of FreeForm masters (in the FreeForm window). Check with your administrator or operator before choosing Clear Server. If an Administrator password has been set, you must enter it to access Clear Server.
Run Setup	Enter the Setup menu and change Setup option settings.
Run Diagnostics	This function is provided for service representatives only. For information about running diagnostics, contact your authorized service/support technician.
Calibration	Calibrate the GA-1120 using AutoCal. For more information, see the *Color Guide*. If an Administrator password has been set, you must enter it to access Calibration.

Accessing Setup options

To access Setup when the GA-1120 is at Idle

1. **Make sure the information screen on the Control Panel reads Idle.**

   If Printing or RIPping appears, the GA-1120 is processing, and you must wait until the system finishes and reaches the Idle state.

2. **Press the Menu button on the Control Panel.**

3. **In the Functions menu, use the Down arrow button to scroll to Run Setup.**

   At the main Setup window, press the button for the Setup you want to access.

   For first-time Setup, you must perform at least these Setups in this order: Server Setup, Network Setup, and Printer Setup. After performing these Setups, you can continue with the remaining Setups, or exit Setup and save your changes.

About the Control Panel Setup interface

When you perform Setup from the Control Panel, you can select one menu after another and enter information about your GA-1120 and your network and printing environment.

In each Setup screen, the last line of the display window shows the name of the current Setup menu. Most of the menus you see are shown on the Control Panel Map, a flowchart you can print from the Control Panel.

To print the Control Panel Map

1. **At the Control Panel, press the Menu button to access the Functions menu.**

2. **Scroll with the arrow buttons to Print Pages, and press Set.**

3. **Scroll to Control Panel Map, and press Set.**

Types of Setup screens

There are two types of Setup options:

Multiple choice questions

You are given choices (for example, Yes or No, or a list of options from which to choose). Only one choice is displayed at a time, in highlighted text. The currently selected (or default) value appears first.

Use the Up and Down arrow buttons to scroll through the choices, and choose Set when the correct information is displayed.

Information entry options

You must specify the information for your site (the printer name or IP address). Use the Up and Down arrow buttons to scroll through the alphanumeric symbols to make your selection.

When you enter text, enter it from left to right, as the left arrow button acts as a delete key as well as a cursor-moving key.

When you have entered the settings, you need to save the changes. You are usually prompted to do so. If you choose Yes, your settings overwrite previous settings. If you choose No, your previous settings are retained. If necessary, the GA-1120 reboots after you exit from the Setup menu.

Server Setup options

The Server Setup menu lets you specify system information that pertains to the GA-1120 and all users. Accessing the menu is described on page 4-8.

When you choose Server Setup, the options appear in sequence, as follows. Default values, where applicable, appear in square brackets. Words shown in italics indicate that a product- or site-specific value is displayed.

Server Name
Default server name

Enter a name for the GA-1120 (up to 15 characters long). This name appears in the Chooser on an AppleTalk network.

NOTE: Do not use the device name (Color-MFP) as the server name. Also, if you have more than one GA-1120, do not give them the same name. Linux is not designed to handle two computers with the same name in the same workgroup or domain.

System Date

Enter the correct system date in the standard form for your use. The date appears on the Job Log.

System Time

Enter the correct system time. Enter the time based on the 24-hour clock in the form `HH:MM` (Hours:Minutes). The time appears on the Job Log.

Print Start Page
Yes/No [No]

Specify whether the GA-1120 should print a start page every time it restarts. The start page displays information about the GA-1120, including the server name, current date and time, amount of memory installed in the GA-1120, network protocols enabled, and connections published.

Use Character Set
Macintosh/DOS/Windows [Macintosh]

Specify whether the Control Panel and Command WorkStation should use the Macintosh, DOS, or Windows character set for displaying file names. This is important if file names include accented or composite characters (such as é or æ).

For mixed-platform networks, choose the option that gives the best overall representation of the special characters you use.

Enable Printed Queue
Yes/No [Yes]

Specify whether to enable the Printed queue, which creates a storage location on the GA-1120 disk for recent jobs that were printed from the Print queue. Users with Administrator or Operator access to the job management tools can reprint jobs from the Printed queue without resending them to the GA-1120. If you select No, jobs are deleted from the GA-1120 disk immediately after they are printed.

Jobs Saved in Printed Queue
1-99 []

This option appears only if Enable Printed Queue is set to Yes. Specify the number of jobs to be stored in the Printed queue. Jobs in the Printed queue take up space on the GA-1120 hard disk. If disk space is low, use a smaller value for saved jobs.

Clear Each Scan Job
After 1 day/Now/Manually/After 1 week [After 1 day]

Specify how you want to remove scanned data from the HDD. If you select Manually, the scanned data remains on the HDD until specifically deleted, or until all scanned jobs are cleared by the Administrator.

Save Changes
Yes/No [Yes]

Select Yes to activate any changes made in the Server Setup; select No to return to the main Setup menu without making any changes.

Network Setup options

Network Setup configures the GA-1120 to receive print jobs over the network systems that are used at your site.

In the Setup menu, choose Network Setup, where you specify network addresses and names to be used by workstations, servers, and the GA-1120 when they communicate with each other.

The Network Setup menu includes three submenus that allow you to choose port types, protocols, and network services. You must perform Port Setup and enable at least one port.

For each item you enable, you are prompted to enter settings for that item. Default values, where applicable, appear in this manual with square brackets.

You should display and select options only for the network systems that are currently used at your site. If your network requirements change, you can change Network Setup at any time.

If the GA-1120 is configured to enable more than one protocol, it automatically switches to the correct protocol when it receives a print job.

The available network types, and the Setup areas that pertain to them, are summarized in the following table.

For this Network or Connection Type	Use this Port Setup	Use this Protocol Setup	Use this Service Setup
AppleTalk over Ethernet	Ethernet Setup	AppleTalk Setup	AppleTalk printing (PAP) is enabled automatically.
TCP/IP over Ethernet	Ethernet Setup	TCP/IP Setup: Ethernet Setup	LPD Setup Web Services Setup Windows Setup Port 9100 Setup IPP Setup (Windows 9x/Me/2000/XP)
IPX/SPX over Ethernet	Ethernet Setup	IPX/SPX Setup	PServer Setup (NDS, Bindery, or both)

To access Network Setup options

1. **Confirm that the network cable is connected to the GA-1120.**

   During Network Setup, the GA-1120 queries the network for zones, servers, and server-based queues. If you perform Network Setup without a connected and functioning network, default settings are used that may not meet your needs.

2. **Choose Network Setup from the main Setup menu.**
3. **Choose Port Setup from the Network Setup menu.**
4. **To use Ethernet, choose Ethernet Setup from the Port Setup menu, and enter the appropriate settings.**
5. **When you have finished entering port settings, choose Exit Port Setup, and then choose Protocol Setup.**
6. **Enter the appropriate settings for the protocol or protocols you will use.**
7. **When you have finished entering protocol settings, choose Exit Protocol Setup, and then choose Service Setup.**
8. **Enter the appropriate settings for the services you will use.**

   The options are described in detail in the following pages.

To exit Network Setup

1. **When you have finished entering service settings, choose Exit Network Setup.**
2. **Choose Yes when prompted to save changes.**
3. **From the main Setup menu, choose another Setup or choose Exit Setup.**

Port Setup options

Network Setup ▶
Port Setup ▶

Ethernet Setup

Enable Ethernet
Yes/No [Yes]

Select Yes if you have Ethernet cabling connected to the GA-1120.

Ethernet Speed
Auto Detect/100 Mbps/10 Mbps [Auto Detect]

Select Auto Detect if your network environment is mixed or if you do not know the network speed. If you know the speed of the network to which the GA-1120 is attached (10 Mbps or 100 Mbps), select it.

Protocol Setup options

To configure the GA-1120, choose each protocol and enter the settings for that protocol. You can enable AppleTalk, TCP/IP, and IPX/SPX communication simultaneously.

Network Setup ▶
Protocol Setup ▶

AppleTalk Setup

Enable AppleTalk
Yes/No [Yes]

Select Yes if you have an AppleTalk network connected to the GA-1120. This setting enables the GA-1120 to communicate over AppleTalk networks.

AppleTalk Zone
List of zones

The GA-1120 searches the network for AppleTalk zones in your network segment. Scroll through the list to select the AppleTalk zone in which you want the GA-1120 to appear. If your segment has only one zone, the GA-1120 is assigned to that zone automatically.

The message "No AppleTalk zone found" may mean your network has no zones, or the network cable is not connected (see Appendix A). Choose Set to dismiss the message.

TCP/IP Setup options

To configure the GA-1120 for TCP/IP, choose TCP/IP Setup.

Choose Ethernet Setup and enter the appropriate settings. Choose each network type you use (Ethernet) and enter the appropriate settings.

When you set an IP address, subnet mask, or gateway address for the GA-1120 during Setup, you can allow the GA-1120 to get these addresses automatically from a DHCP, BOOTP, or RARP server. First, turn on or restart the GA-1120 and allow it to reach Idle. Next, make sure the DHCP, BOOTP, or RARP server is running. Finally, perform GA-1120 Setup.

TCP/IP Setup with Ethernet

Network Setup ▶
Protocol Setup ▶
TCP/IP Setup ▶

Ethernet Setup

TCP/IP - Ethernet
Yes/No [Yes]

Select Yes if you have a TCP/IP network connected to the GA-1120 over Ethernet cabling.

NOTE: If you are using TCP/IP for printing from Windows computers, enabling TCP/IP here also enables you to use Fiery utilities from Windows computers using TCP/IP protocols.

Enable Auto IP Config
Yes/No [Yes]

Select Yes to allow the GA-1120 to obtain its Ethernet IP address by searching the network. Depending on your network and the protocol you select in the following option (DHCP, BOOTP, or RARP), the IP address can change. Select No to assign the GA-1120 a static IP address that will not change. If you select No, you proceed to the IP Address option, where you manually set the IP address.

Select protocol
DHCP/BOOTP/RARP [DHCP]

This option appears only if you answered Yes to Enable Auto IP Config. Select the protocol over which the GA-1120 should search for its IP address. Both DHCP and BOOTP allow the GA-1120 to obtain the Ethernet IP address and Subnet Mask automatically. RARP obtains only the Ethernet IP address.

Depending on your network, the GA-1120 might be assigned a different address after you restart the GA-1120. With the DHCP setting, the GA-1120 can be assigned a different address even if it is not restarted. Make sure the network is already configured properly for the protocol you select.

Auto Gateway Addr
Yes/No [Yes]

Use this option to assign the gateway address automatically for printing with TCP/IP. This option appears only if you selected DHCP or BOOTP as the protocol in the previous option.

If you select a DHCP or BOOTP protocol and later change it to RARP, you must return to Setup and set this option to No. You can then set the address manually. RARP does not support automatic assignment of the gateway address.

IP Address
[127.0.0.1]

Enter the GA-1120 IP address for Ethernet. This IP address, unlike an IP address set automatically, remains the same if you restart the GA-1120. You must change the default to a valid address for your network. For information about setting up printing with TCP/IP, see Chapter 2.

Subnet Mask
This option lets you modify the subnet mask for printing with TCP/IP over Ethernet. To set the subnet mask, enter one of the following values:

- 255.0.0.0 if the IP address starts with a number less than 128
- 255.255.0.0 if the IP address starts with a number from 128 through 191
- 255.255.255.0 if the IP address starts with a number greater than 191

NOTE: Confirm the subnet mask setting with your network administrator before proceeding. In some cases, the required setting may be different from those listed.

Gateway Address
[127.0.0.1]

This option appears only if you answered No to Auto Gateway Addr, or if you selected RARP as the protocol.

Use this option to set the gateway address for printing with TCP/IP. If your network uses a gateway, you must change the default to a correct gateway address for your network.

IPX/SPX Setup options

To specify the frame types the GA-1120 uses for IPX/SPX protocols, choose IPX/SPX Setup from the Protocol Setup menu. You must choose at least one frame type to enable IPX/SPX protocols. The GA-1120 supports the following frame types for IPX/SPX:

- For Ethernet—Ethernet 802.2, Ethernet 802.3, Ethernet II, and Ethernet SNAP

For protocols other than IPX/SPX, the frame type is automatically enabled and does not require setup, as follows:

With this protocol	And these printing services	This frame type is automatically enabled
AppleTalk	PAP (Printer Access Protocol)	Ethernet SNAP
TCP/IP with Ethernet	LPD (Line Printer Daemon)	Ethernet II

Select Frame Types

IPX Auto Frame Type
Yes/No [No]

Specify whether the GA-1120 should try to bind to all available frame types automatically. The GA-1120 does so whether or not all frame types are appropriate. To determine the frame types that were successfully bound, save your changes, exit Setup, restart the GA-1120, and print a Configuration page. The Configuration page lists only one of the frame types that were successfully bound.

If you answer No to this option, you can select frame types manually. You must choose at least one frame type to enable IPX/SPX protocols.

The frame selection screen allows you to make multiple selections. Depending on your Port Setup selection, only Ethernet frame types or all frame types are displayed.

Press theSet button for each frame type used on your IPX/SPX network. An asterisk (*) appears beside each selected frame type. Press the line selection button again to deselect a frame type. Use the Up and Down arrow buttons to scroll to additional frame types. The GA-1120 binds to each frame type as you select it.

When you have selected all the frame types used, choose Exit IPX/SPX Setup.

Clear Frame Types

You can clear all frame types at once by choosing Exit IPX/SPX Setup, then choosing IPX/SPX Setup and selecting Clear Frame Types.

Service Setup options

PServer is a program in the GA-1120 that can service the Novell print queues assigned to the Novell print servers you have set up for printing to the GA-1120. When you choose PServer Setup and enable PServer, you can set up NDS (Novell Directory Services), Bindery Services, or both. NDS is used with NetWare 4.x/5.x; Bindery Services are used with NetWare 4.x/5.x in bindery emulation mode.

LPD Setup options

Network Setup ▸
Service Setup ▸
LPD Setup ▸

Enable LPD
Yes/No [Yes]

Select Yes to allow lpd printing. For more information, see "Setting up the GA-1120 on TCP/IP networks" on page 2-18.

PServer Setup options

Network Setup ▸
Service Setup ▸
PServer Setup ▸

Enable PServer
Yes/No [No]

Select Yes if you have a Novell network connected to the GA-1120.

Choose NDS Setup if your network uses NetWare 4.x/5.x in native mode. Choose Bindery Setup if your network uses NetWare 4.x/5.x in bindery emulation mode.

If your network uses *both* NDS and Bindery, set up NDS first. If you set up NDS after Bindery, you will overwrite Bindery Setup.

If your network uses both NDS and Bindery, and uses NetWare 4.x/5.x servers in bindery emulation, note that the GA-1120 cannot service NDS and bindery emulation servers on the same NDS tree.

Network Setup ▸
Service Setup ▸
PServer Setup ▸

NDS Setup

Before entering NDS settings, make sure the GA-1120 is connected to the network and that you have configured an NDS directory tree with a Printer, Print Server, and one or more Print Queue objects for GA-1120 jobs (see page 2-13). To perform NDS Setup, you may need permission to browse the NDS tree. If access to the Print Server is restricted, you need a login password.

The main objective of NDS Setup is to specify the Print Server object. In addition, you can indicate the location of the GA-1120 print queues.

NOTE: The terms NetWare server, Novell server, and IPX server are in common use and are used here interchangeably to mean the server on an IPX network running Novell NetWare networking software.

Enable NDS
Yes/No [No]

Select Yes if the NetWare servers you will use to print to the GA-1120 are running NetWare 4.x/5.x in native mode.

Select NDS Tree
List of trees

Use the Up and Down arrow buttons to browse the list of NDS trees available to the GA-1120. Choose Set when you have displayed the tree that contains the Printer, Print Server, and Print Queue objects you previously defined for the GA-1120.

Your new NDS tree selection automatically overwrites any previous tree selection. If you change the NDS tree selection and there are also current Bindery settings, you are alerted that they will be deleted. If you continue with NDS Setup, you can replace Bindery settings later. If you do not want to continue, press the Menu button to exit NDS Setup.

Is user login needed to browse NDS tree? Yes/No [No]

Select No if no password is required to browse the tree. You can proceed to navigate to the Print Server object.

Select Yes if network permissions require that you log in to browse the NDS tree and see the Print Server object you want to select. If you select Yes, you are prompted to navigate to the User Login object.

Navigate to the User Login object.

This message is displayed if you selected Yes for the previous option. Choose Set and browse the NDS tree, as described in the following paragraphs.

NDS Tree name Object list, "..."

Browsing to find the User Login object begins with the NDS tree that you selected previously (with Select NDS Tree). Use the Up and Down arrow buttons to scroll a list of objects in the tree beneath the [Root] in the hierarchy, or use the navigation symbol ".." to go up one level at a time.

In each subsequent browse screen, the top line represents your current location. The second line contains:

- A list of objects in the current container directly below your current location
- The symbol ".." to go up one level

With an object selected, choose Set to travel down the tree, or choose ".." to go up the tree. When you select an object and choose Set, that object is displayed on the top line, and the second line lists objects directly below it.

Continue to browse the NDS tree until the User Login object is displayed in the second line. Choose Set.

Enter Password

Enter the login password for the NDS tree, using the Up and Down arrow buttons to select characters, and the Left and Right arrow buttons to move the cursor. Choose Set.

Navigate to the Print Server.

Choose Set to browse the NDS tree to the Print Server object.

Browsing to find the Print Server object begins with the NDS tree that you selected previously (with Select NDS Tree). In each subsequent browse screen, the top line represents your current location. The second line contains:

- A list of objects in the current container directly below your current location
- The symbol ".." to go up one level

With a container object selected, choose Set to travel down the tree, or choose ".." to go up the tree. When you select an object and choose Set, that object is displayed on the top line, and the second line lists objects directly below it.

When the Print Server is displayed in the second line, choose Set.

Enter Password

Enter the Print Server password, using the Up and Down arrow buttons to enter characters, and the Left and Right arrow buttons to move the cursor. Choose Set. (If no password is required, choose Set.)

Find queues in:
Entire NDS Tree/Specif. Subtree [Entire NDS Tree]

By default, the GA-1120 searches the entire NDS tree for GA-1120 print connections. This option lets you restrict the search for GA-1120 print jobs to a subtree (the Print Queue root) in which the GA-1120 print connections have been defined. This makes the search more efficient. Select Entire NDS Tree if the tree is small. Select Specif. Subtree to restrict the search and specify the subtree.

If you select Entire NDS Tree, choosing Set returns to PServer Setup. Proceed with Bindery Setup (see page 4-26), set the Polling Interval (see page 4-31), or choose Exit PServer Setup to return to the Service Setup menu.

Browse to the root of the Print Queue Subtree.

This message is displayed if you selected Specified Subtree in the previous option. Choose Set to browse the NDS tree to the Print Queue subtree.

Browsing to find the container object begins with the NDS tree that you selected previously (with Select NDS Tree). In each subsequent browse screen, the top line represents your current container. The second line contains:

- A list of objects directly below your current location
- The symbol ".." to go up one level
- The symbol "." to select the current container object (displayed in the top line) without traveling down the tree

With an object selected, choose Set to travel down the tree, or choose ".." to go up the tree. When you select an object and choose Set, that object is then displayed on the top line, and the second line lists objects contained within.

When the container that contains print queues is displayed in the second line, choose Set. In the next screen, choose "." and choose Set to select the object in the top line.

When the GA-1120 displays the container name, choose Set to return to PServer Setup.

Proceed with Bindery Setup (see page 4-26), set the Polling Interval (see page 4-31), or choose Exit PServer Setup to return to the Service Setup menu when prompted.

Bindery Setup options

Network Setup ▶
Service Setup ▶
PServer Setup ▶

Bindery Setup

Use Bindery Setup if you have already configured one or more bindery servers (file servers running NetWare 4.x/5.x in bindery emulation) with a Print Server and a Print Queue for GA-1120 jobs. Before entering bindery settings, be sure the GA-1120 is connected to the network and the NetWare file server is running. If Guest Login is not supported, you need a valid user name and password.

NOTE: The terms NetWare server, Novell server, and IPX file server are in common use and are used here interchangeably to mean the server on an IPX network running Novell NetWare networking software.

Bindery Setup menu

Because you can set up more than one Novell server to handle GA-1120 print jobs, an additional menu is displayed for this purpose. The options are:

- Add File Server—creates a new file server connection to the GA-1120. You can set up a maximum of eight file server connections. After you have finished adding a new server, you return to the Bindery Setup menu, where you can set up another server.
- View Server List—displays the list of file servers that have already been selected to communicate with the GA-1120.
- Edit Connection—lets you change the NetWare Print Server that will print to the GA-1120.
- Remove File Server—lets you disconnect the GA-1120 from a file server to which it is currently connected. Remove a file server when you want to reduce the number of connections to the GA-1120 or reassign the connection to a different NetWare file server.
- Exit Bindery Setup—lets you exit this menu after you have added all servers, viewed a list of file servers, or removed a file server from the list.

NOTE: If you change your mind about any of the menus you have selected, use the Menu button to escape and return to the main Bindery Setup menu. To cancel all changes, exit Network Setup and select No to Save Changes.

Network Setup ▸
Service Setup ▸
PServer Setup ▸
Bindery Setup ▸

Add File Server

This option gives you two ways to add a Novell NetWare file server.

Select File Server
From List/Search by Name [From List]

You may select the file server from a scrollable list, or by a name search. Choose From List if your network does not have a large number of file servers. Choose Search by Name if the number of file servers is so large that scrolling through the list would take a long time.

If you selected **From List**:

Add Server
List of all servers

The GA-1120 obtains a list of NetWare file servers by querying the IPX network. Use the Up and Down arrow buttons to select a NetWare file server from the list. Choose the server on which you have configured a print server and print queue to handle GA-1120 print jobs.

If you selected **Search by Name**:

Enter First Letters of Server Name

Use the Up and Down arrow buttons to enter the first letters of the name of the file server you want to use, and choose Set.

Add Server
List of servers matching the search

This option is displayed if you entered letters to search. Scroll to select the server you want from the list.

Once you have chosen a file server, the GA-1120 immediately tries to log in as a guest without a password. If it succeeds, it skips to the NetWare Print Server option.

If you try to add a file server but all GA-1120 connections are already in use, you are prompted to remove a file server (see "Remove File Server" on page 4-30).

File Server Login
administrator/supervisor/Enter Login Name [supervisor]

This option appears only if a password is required for login, or if there is no guest account, or the guest account is restricted. Choose Enter Login Name to enter your own login name and password or log in as a guest. Choose administrator or supervisor if you have those privileges.

Enter Your Login Name
[guest]

This option and the next appear only if you selected Enter Login Name for the File Server Login. Enter your login name or select guest.

Enter Your File Server Password

Enter the password for logging in to your NetWare file server.

NetWare Print Server
Print Server Name

Select the name of the print server that you have configured in the NetWare utility PCONSOLE. This is the print server that will route print jobs to the GA-1120 from computers on IPX networks.

Print Servr Password

This option appears only if your NetWare print server is set up to require you to log in with a password. Enter your print server password.

Choose Add Server again until you have connected each NetWare file server you have configured for printing to the GA-1120. When you have added all the IPX file servers for your site, choose Exit Bindery Setup.

Network Setup ▸
Service Setup ▸
PServer Setup ▸
Bindery Setup ▸

View Server List

Supported servers

This option allows you to view the list of file servers currently connected to the GA-1120, that is, servers you have added in Bindery Setup. You are notified if there are none. When you choose Set, you return to the Bindery Setup menu.

Network Setup ▸
Service Setup ▸
PServer Setup ▸
Bindery Setup ▸

Edit Connection

On each connected NetWare file server, you have defined a print server to handle GA-1120 print jobs. Use this option to change the print server assigned to the GA-1120.

Choose File Server
File server name

From the list of connected NetWare file servers, choose the file server whose print server you want to change.

NetWare Print Server
List of print servers on selected file server

Choose the name of the print server you want to use. This is the print server that will route print jobs to the GA-1120 from computers on IPX networks.

If you change your mind, press the Menu button to return to the Bindery Setup menu without making a change.

Enter Your Print Server Password

This option appears only if your NetWare print server is password-protected. Enter your print server password.

The Bindery Setup menu is displayed again. You can edit other connections, choose another Bindery Setup option, or choose Exit Bindery Setup.

Network Setup ▸
Service Setup ▸
PServer Setup ▸
Bindery Setup ▸

Remove File Server

Remove support for
File server name

This option allows you to select a NetWare file server from a list of connected file servers and remove the connection to it. You are notified that you have removed the connection, and the Bindery Setup menu is displayed again. If you change your mind and do not want to remove any of the file servers, press the Menu button.

You can choose another Bindery Setup option (such as adding another file server) or choose Exit Bindery Setup and proceed to set the polling interval.

Network Setup ▸
Service Setup ▸
PServer Setup ▸
Bindery Setup ▸

Exit Bindery Setup

Choose Exit Bindery Setup after you have viewed a list of IPX file servers, removed a file server from the list, or connected all the configured NetWare file servers. After you select Exit Bindery Setup, you return to the PServer Setup menu.

Polling Interval options

Network Setup ▶
Service Setup ▶
PServer Setup ▶

Polling Interval

Whether you use NDS or Bindery services, choose Polling Interval from the main PServer Setup menu. If you do not reset the interval, the default value of 15 seconds is used.

NetWare Server Poll Interval in Seconds
1–3600 [15]

Specify the interval, in seconds, at which the GA-1120 communicates with the Novell print server to see if there are print jobs waiting.

NOTE: If you select a short interval, the amount of network traffic increases. This may slow down other network jobs.

Windows Setup options

Network Setup ▶
Service Setup ▶
Windows Setup ▶

Windows Printing
Yes/No [Yes]

Enabling Windows Printing enables Server Message Block (SMB), the file and printer sharing protocol built into Windows. Enabling SMB allows the GA-1120 to be listed on the network so that Windows clients can print to a particular print connection (Hold, Print, or Direct) on the GA-1120 without any other networking software. For information on setting up a Windows computer for Windows printing, see the *User Software Installation Guide*. Windows printing runs via TCP/IP, so you must configure TCP/IP on the GA-1120 and on all computers that use Windows printing.

Use Auto Config
Yes/No [Yes]

This option appears if you chose DHCP or BOOTP as the protocol for automatically obtaining the IP address of the GA-1120.

Choose Yes to have the GA-1120 use a WINS name server and automatically obtain its IP address. After making your choice, proceed to the Server Name option.

Choose No to proceed to the Use WINS Name Server option, where you specify whether to use a WINS name server, and then to the WINS IP Address option, where you specify its IP address.

Use WINS Name Server
Yes/No [No]

Broadcasts from SMB devices cannot pass across a router without a WINS name server. Setting up the WINS name server is outside the scope of this manual. To find out if a name server is available, contact your network administrator.

WINS IP Address
[127.0.0.1]

This option appears only if you choose Yes for WINS Name Server. Change the default address to the correct IP address for the WINS Name Server. Obtain the correct address from your network administrator.

Server Name
Default Name

The server name is the name that will appear on the network for accessing the GA-1120 via SMB. The default name is the same as the server name assigned in Server Setup (see page 4-10).

Server Comments

Server comments (optional) can contain information about the printer. These comments are listed in the Properties of the GA-1120 in Network Neighborhood and can be up to 15 characters.

Set Domain Name
Select from list/Enter manually [Select from list]

This option provides two ways to specify the workgroup or domain where you want the GA-1120 to appear.

If you selected **Select from list**:

Choose Domain
List of domains

Select the workgroup or domain from the list.

If you selected **Enter manually**:

Workgroup or Domain

Enter the name of the workgroup or domain. For more information about entering text and characters, see "Types of Setup screens" on page 4-9.

Web Services Setup

Network Setup ▸
Service Setup ▸
Web Services Setup ▸

Enable Web Services
Yes/No [Yes]

Select Yes to make the WebTools available to users (see page 6-1).
TCP/IP must be enabled on the GA-1120 and on user workstations. The WebTools include WebSpooler, Status, WebLink, WebScan, WebDownloader, WebSetup, and Installer.

A Java-enabled Web browser and a valid IP address or DNS hostname are required for each user. For details on browser choice and workstation requirements, see the *User Software Installation Guide*.

IPP Setup

Network Setup ▸
Service Setup ▸
IPP Setup ▸

Enable IPP
Yes/No [Yes]

Select Yes to enable printing with the Internet Printing Protocol (IPP). You must enable Web Services. For information on setting up user computers to use IPP printing, see the User *Software Installation Guide*.

Port 9100 Setup

Network Setup ▸
Service Setup ▸
Port 9100 Setup ▸

Enable Port 9100
Yes/No [Yes]

This option enables applications to open a TCP/IP socket to the GA-1120 at Port 9100 to download a print job.

Port 9100 Queue
Direct/Print Queue/Hold Queue [Print Queue]

Specify the GA-1120 print connection for downloading jobs to Port 9100. Only the print connections you have enabled in Printer Setup are available.

E-mail Setup

Network Setup ▸
Service Setup ▸
E-mail Setup ▸

Enable E-mail Services
Yes/No/Restore Settings [No]

This option enables the GA-1120 to use e-mail as a means of communication for a variety of purposes. The GA-1120 serves as a messenger between the copier and the e-mail recipient. Choose Restore Settings to go restore the previous settings.

Print via E-mail
Yes/No [No]

Choose Yes to enable printing through e-mail.

Outgoing Server
[127.0.0.1]

Enter the IP address of the server on your network that handles outgoing e-mail.

Incoming Server
[127.0.0.1]

Enter the IP address of the server on your network that handles incoming e-mail.

Server Type
POP3/IMAP [POP3]

Choose the type of mail server.

Fiery User Name

Enter the user name of the e-mail account. This is typically the part of the e-mail address that precedes the @ symbol. For example, in the address pat@test.com, the user name is pat.

Fiery Domain Name

Enter the name of the domain where the user has an account. This is typically the part of the e-mail address that follows the @ symbol. For example, in the address pat@test.com, the domain name is test.com.

Account Name

Enter the account name. This is the internal name your network recognizes, which is not necessarily the same as User Name.

Password

Enter the password for the e-mail account.

Admin. User Name

Enter the administrator name of the administrator e-mail account. This is typically the part of the e-mail address that precedes the @ symbol. For example, in the address pat@test.com, the administrator e-mail user name is pat.

Admin. Domain Name

Enter the name of the domain where the administrator has an account. This is typically the part of the e-mail address that follows the @ symbol. For example, in the address pat@test.com, the domain name is test.com.

The administrator authorizes a unique e-mail address to remotely administrate the Fiery E-mail Services via e-mail. If an error occurs while you are executing a scan to e-mail, the e-mail service sends an error message to the administrator e-mail address specified. The administrator can authorize additional e-mail addresses as administrators from this e-mail address.

Timeout (sec)
30–300 [60]

Enter the length of time, in seconds, that the GA-1120 should try to connect to each e-mail server before determining that the connection is unsuccessful.

Poll Interval (sec)
1–3600 [15]

If you have enabled auto-checking for new messages in the previous option, enter the interval in seconds at which the GA-1120 should automatically check for new e-mail.

Max Scan File Size
0–15000 [1000]

Specify the maximum file size of a scan for the GA-1120 to send it as an attachment. If the scan file exceeds this maximum, the file will automatically be sent as a URL.

Network Setup ▸
Service Setup ▸

Exit Service Setup

This returns you to the main Network Setup menu. Choose Exit Network Setup.

Save Changes
Yes/No [Yes]

Select Yes to activate any changes made in Network Setup; select No to return to the main Setup menu without making any changes.

Printer Setup options

Printer Setup configures the connections and printing behavior associated with a particular printing device. For more information on GA-1120 print connections, see page 3-1.

TO ACCESS PRINTER SETUP OPTIONS

1. **In the main Setup menu, choose Printer Setup.**
2. **Enter the options appropriate to the printing requirements at the site.**
3. **When you have finished, save changes.**

In the list of options that follows, default values, where applicable, appear in brackets.

NOTE: For users to use the Fiery utilities and WebTools or print to the GA-1120 over a TCP/IP network, you must publish at least the Hold queue or the Print queue.

Publish Direct
Yes/No [Yes]

This option allows users to print (or download) jobs to the GA-1120 without spooling. Jobs printed to the Direct connection are not saved in the Printed queue.

If you plan to download fonts to the GA-1120, you must publish the Direct connection.

Publish Print Queue
Yes/No [Yes]

This option allows users to print (or download) jobs to the Print queue. Jobs that are printed to the Print queue are spooled to the GA-1120 disk and printed on a first-in, first-out basis. Only queues published in the Printer Setup are available to users.

Publish Hold Queue
Yes/No [Yes]

Use this option to allow users to print (or download) jobs to the Hold queue. Jobs in the Hold queue can only be printed by copying or moving the jobs to the Print queue with the job management tools.

Save Changes
Yes/No [Yes]

Select Yes to activate any changes made in the Printer Setup; select No to return to the main Setup menu without making any changes.

PostScript Setup options

PS (PostScript) Setup allows you to set defaults for the GA-1120. Users can override most of these defaults on a job-by-job basis. However, users printing from UNIX or DOS command lines cannot override defaults from their applications. Therefore, you must set defaults in PostScript Setup. For information about these defaults, see the *Printing Guide*.

TO ACCESS POSTSCRIPT SETUP OPTIONS

1. **In the main Setup menu, choose PS Setup.**
2. **Enter the options appropriate to the printing requirements at the site.**
3. **When you have finished, save changes.**

In the list of options that follows, default values, where applicable, appear in square brackets.

Convert Paper Sizes
No Letter/11x17->A4/A3 A4/A3->Letter/11x17 [No]

Specify whether to convert paper sizes in documents automatically to the default paper sizes specified. For example, if you select Letter/11x17->A4/A3, a letter size document is automatically printed on A4 paper.

NOTE: This option works in conjunction with the Default Paper Sizes option. For example, if Convert Paper Sizes is set to Letter/11x17->A4/A3, and Default Paper Sizes is set to US, then jobs are printed A4/A3 size. This also includes GA-1120 system pages such as the Start Page, Test Page, and Job Log.

Toner Reduction
On/Off [Off]

Specify whether to minimize the effects of “blasting”, which occurs when excess amounts of toner on certain media types “blast” beyond the color density boundaries defined in the print job.

Page Order
Forward/Reverse [Reverse]

Select Forward if you want to print the pages of your job from first to last. Select Reverse if you want to print the pages of your job from last to first.

Default Paper Sizes
US/Metric [US in the United States, Metric elsewhere]

Specify whether to print on US paper sizes (for example, Letter, Legal, 11x17), or Metric paper sizes (for example, A4 or A3) by default. When no page size is defined within a PostScript file, jobs are printed on Letter paper if you selected US, or A4 paper if you selected Metric.

Print Cover Page
Yes/No [No]

Specify whether the GA-1120 prints a cover page (job summary) at the end of each print job. If you select Yes, each print job is followed by a page containing the name of the user who sent the job, the document name, the server name, the time the job was printed, the number of pages printed, and the status of the job. If a PostScript error occurs and the Print to PS Error option is set to Yes, the cover page lists the PostScript error message instead of the job status.

Allow Courier Substitution
Yes/No [Yes]

Specify whether to substitute Courier for fonts that are unavailable when you download files to the GA-1120, or when you print a document for which you do not have the corresponding printer font. If this option is set to No, jobs with fonts that are unavailable on the GA-1120 hard disk generate a PostScript error and do not print. This setting does not apply to PDF files; font substitution occurs automatically in PDF files.

Print to PS Error
Yes/No [No]

Specify whether the GA-1120 should print the available portion of a print job when it encounters a PostScript error. Select Yes to print the portion of the job that was processed before the error occurred; select No to cancel the print job entirely when a PostScript error is encountered. Leave this option at No unless you encounter printing problems.

Save Changes
Yes/No [Yes]

Select Yes to activate any changes made in PS Setup; select No to return to the main Setup menu without making any changes.

Color Setup options

Color Setup allows you to set defaults the GA-1120 uses to control color output. Mac OS and Windows users who use the printer drivers provided on the User Software CD can override most of these defaults on a job-by-job basis. However, users printing from UNIX or DOS command lines cannot override defaults from their applications. Therefore, you must set defaults in Color Setup.

The preferred method for setting color defaults is to use Color Setup, part of the ColorWise Pro Tools. The color options are described in this section for your reference. For more information about these defaults, see the *Printing Guide* and *Color Guide*.

NOTE: In addition to the defaults described in this section, Mac OS and Windows users have additional settings available from the printer drivers.

TO ACCESS COLOR SETUP OPTIONS

1. **In the main Setup menu, choose Color Setup.**
2. **Enter the options appropriate to the printing requirements at the site.**
3. **When you have finished, save changes.**

In the list of options that follows, default values, where applicable, appear in square brackets.

RGB Source Profile
EFIRGB/sRGB (PC)/Apple Standard/None [EFIRGB]

The RGB source is the color space used to control color for conversion from screen to printed output. EFIRGB is based on the reference points used in the creation of the GA-1120 software. sRGB is based on an average of a large number of PC monitors. Apple Standard is the standard reference point for Apple's ColorSync software.

Rendering Style
Photographic/Presentation/Abs. Colorimetric/Rel. Colorimetric [Presentation]

The color rendering dictionary (CRD) defines how colors are converted from the RGB color space to device CMYK. Photographic, designed for images, retains the relative balance between colors to maintain the overall appearance of the image. Presentation, designed for bright colors, produces the saturated prints needed for most business presentations, but handles photographic images the same way as the Photographic CRD. Absolute Colorimetric provides the closest match to the CMYK device being simulated, including rendering the paper color as the background. Relative Colorimetric provides a close match to the CMYK device being simulated, regardless of the media used.

CMYK Sim. Profile
SWOP-Coated (EFI)/DIC (EFI)/Euroscale (EFI)/None [SWOP-Coated (EFI)]

CMYK simulation allows color correction to simulate printed output on a commercial press, so that the GA-1120 output can be used for proofing. The SWOP-Coated standard is used in the United States, DIC in Japan, and Euroscale in Europe. Custom simulations are user defined and named. The simulations provided with the GA-1120 have the designation "EFI" after their names.

If users create and load custom simulations on the GA-1120 with ColorWise Pro Tools, these also appear in the list of simulations. A custom simulation can be selected as the default simulation. For more information about custom simulations, see the *Color Guide*.

CMYK Sim. Method
Quick/Full (Source GCR)/Full (Output GCR) [Full (Output GCR)]

Quick simulation assumes that the copier toners match the printer's inks, and all changes affect only one color (C, M, Y, or K) at a time. Full (Source GCR) simulation allows for more flexibility in matching toner to ink and all changes interact to maintain a better color balance. Full (Output GCR) offers accurate proofing by providing a colorimetric conversion of all four plates. In this simulation method, the black (K) plate is mixed into the CMY plates, then reseparated based on the Output profile.

RGB Separation
Output/Simulation [Output]

This option defines how the GA-1120 processes RGB jobs. Select Output for RGB jobs that you print to the final output device. Select Simulation to simulate an output device that is not the device to which you are printing.

Output Profile
Default profile

Specify the default output profile to use for printing. Additional profiles can be created and downloaded to the GA-1120 with ColorWise Pro Tools.

Pure Black Text
On/Off [On]

The Pure Black Text option optimizes black text. The option also minimizes toner use for documents consisting of both color and black-only pages.

With this option On, black text is printed with black toner only. With the option Off, black text is printed using all four colors of toner. For more information, see the *Color Guide*.

Black Overprint
On/Off [On]

With this option On, black text overprints on colored backgrounds. With this option Off, black text knocks out color backgrounds. Generally this option should be On. For more information, see the *Color Guide*.

Spot Color Matching
On/Off [On]

With this option On, the GA-1120 uses an internal lookup table to print the best equivalents of PANTONE colors. With this option Off, PANTONE colors are printed using the CMYK values defined in the original applications. For more information, see the *Color Guide*.

Save Changes
Yes/No [Yes]

Select Yes to activate any changes made in Color Setup; select No to return to the main Setup menu without making any changes.

4

Administrative functions in the Setup menu

The remaining choices in the Setup menu are intended to help you manage print jobs and color output but are not required for printing.

- **Job Log Setup** allows you to specify whether the GA-1120 prints and clears its log of printed jobs automatically.
- **Change Password** allows you to create or change an Administrator password on the GA-1120 so that casual users cannot enter the Setup menus and change settings without permission. The Administrator password also controls many functions available from the job management tools.
- **Clear Server** clears all queued print jobs from the server—jobs in the GA-1120 Print, Hold, and Printed queues. Clear Server also clears the Job Log, all jobs archived on the Fiery hard disk, the index of archived jobs, and all FreeForm masters and the index of FreeForm masters.

TO SET JOB LOG OPTIONS

1. **In the main Setup menu, choose Job Log Setup.**
2. **Enter the options, as described in the following section.**
3. **When you have finished, save changes.**

Job Log Setup

The Job Log is a record of all jobs processed or printed on the GA-1120, whether they originate from a user workstation, a networked server, or the GA-1120. The Job Log can be printed from the Control Panel or from the job management tools.

The printed Job Log lists accounting information about each job, including user name, document name, time and date printed, and number of pages. Windowssand Mac OS users can enter job-specific notes that appear in the Job Log.

By default, the Job Log is not printed or cleared automatically. You can change these defaults in Job Log Setup. You can also print and clear the Job Log from the job management tools.

Default values for the following options, where applicable, appear in square brackets.

Auto Print Job Log
Yes/No [No]

Use this option to specify whether the GA-1120 prints the Job Log after every 55 jobs. Setting the Job Log for automatic printing is useful if accounting for each printed page is important at your site.

Auto Clear Job Log
Yes/No [No]

Use this option to specify whether to clear the Job Log after every 55 jobs. If you do not enable this option, and do not clear the Job Log from the GA-1120 or from a remote workstation, the GA-1120 saves a record of all jobs.

NOTE: If Auto Print Job Log is set to No, setting this option to Yes has no effect.

Job Log Page Size
Tabloid/A3 Letter/A4 [Tabloid/A3]

Select the paper size for printing the Job Log. Regardless of page size, 55 jobs are listed on a page. The paper size used depends on the Default Paper Sizes setting in PS Setup. If the Default Paper Sizes setting is US, the Job Log is printed on Tabloid or Letter size paper, with Tabloid the default.

Save Changes
Yes/No [Yes]

Select Yes to activate any changes made in Job Log Setup; select No to return to the main Setup menu without making any changes.

Exit Setup

Choose Exit Setup from the first screen of the main Setup menu when you have finished making Setup changes.

The GA-1120 reboots and any changes you saved during the Setup take effect.

Chapter 5: Setting up the GA-1120 from a Windows Computer

After you perform initial Setup (Server, Network, and Printer Setup) from the Control Panel, you can change most Setup options from a Windows computer.

Accessing Setup

In addition to using the Control Panel, you can set up the GA-1120 remotely. Remote Setup is performed from a Windows computer using WebSetup or Command WorkStation.

Regardless of how you access Setup, you must log in as Administrator, both at the GA-1120 and within the Setup application you use.

To use the Setup applications (WebSetup or Command WorkStation), you must enter the GA-1120 Administrator password. This is set either from the local setup at the Control Panel, or remote setup from WebSetup or Command WorkStation.

Remote Fiery Setup

Remote Setup is performed from a Windows computer using WebSetup or Command WorkStation.

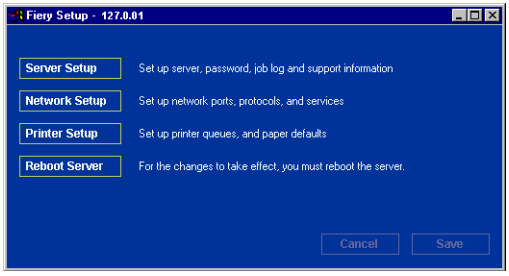
To access Fiery WebSetup

1. **Start your Internet browser and enter the IP address of the GA-1120.**
2. **Log in as Administrator.**
3. **When the GA-1120 home page appears, click WebSetup.**

To access Setup from Command WorkStation

1. **Start the Command WorkStation application.**
2. **Log in as Administrator.**
3. **Choose Setup from the Server menu.**

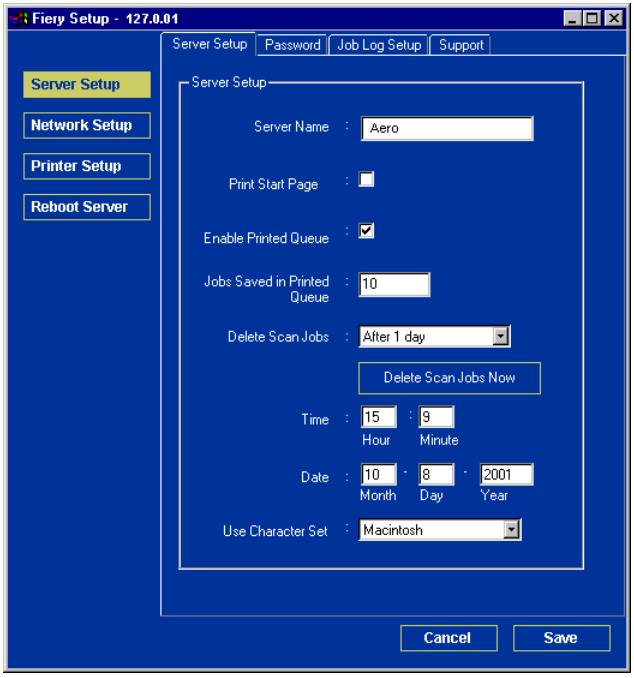
   Regardless of how you access Setup remotely, the following window appears.


Fiery Setup - 127.0.01
Server Setup
Set up server, password, job log and support information
Network Setup
Set up network ports, protocols, and services
Printer Setup
Set up printer queues, and paper defaults
Reboot Server
For the changes to take effect, you must reboot the server.
Cancel
Save

Note: The interface of remote Setup from Command WorkStation and Fiery WebSetup is identical. The remote Setup illustrations in this chapter are from Command WorkStation.

General Setup options

You can specify GA-1120 system settings that affect all users, such as the name of the GA-1120, system date and time, passwords, and Job Log printing.



Server Name—Specify a name for the GA-1120. This is the name that appears in the Chooser on an AppleTalk network.

NOTE: Do not use the device name (Color-MFP) as the server name. If you have more than one GA-1120, do not give them the same name. Windows NT 4.0 does not support more than one computer with the same name in the same workgroup or domain.

Date and Time—Specify the system date and time, which are recorded on the Job Log.

Enable Printed Queue—Specify whether to enable the Printed Queue, a storage location on the GA-1120 disk for recently printed jobs. You can reprint jobs from the Printed queue without resending them to the GA-1120. If the Printed queue is not enabled, jobs are deleted from the GA-1120 disk immediately after they are printed.

Jobs Saved in Printed Queue—Specify the number of jobs to be stored in the Printed Queue. Jobs in the Printed queue take up space on the GA-1120 hard disk.

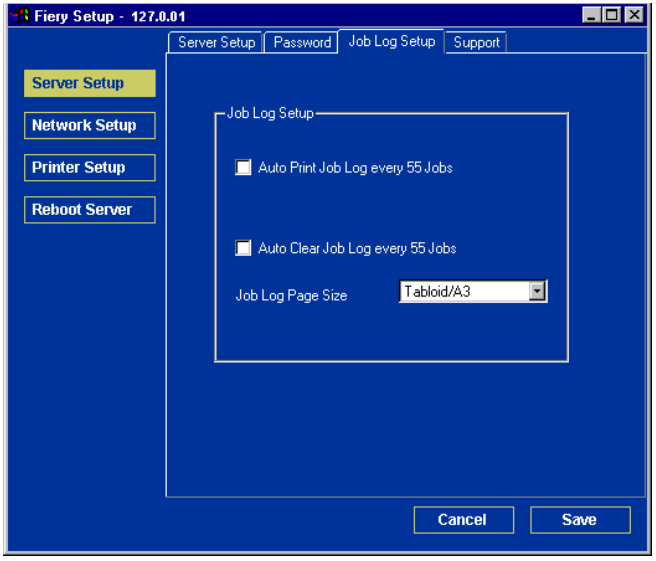
—**Delete Scan Jobs** Specify how often to delete scan jobs from the GA-1120 hard disk. Choose Manually to delete scan jobs manually on a job-by-job basis. Click Delete Scan Jobs Now to delete scan all jobs immediately.

Use Character Set—Specify whether the Control Panel and the job management tools should use the Macintosh, DOS, or Windows character set for displaying file names. This is important if a file name includes accented or composite characters (such as é or æ). For mixed-platform networks, select the setting that gives the best overall representation of the special characters you use.

Print Start Page—Specify whether the GA-1120 should print a start page when it is turned on or restarted. The Start Page displays information about the GA-1120, including server name, current date and time, amount of memory installed, network protocols enabled, and print connections published.

Support—Enter names, phone numbers, and e-mail addresses of contact people at your organization who provide support for the GA-1120 and the copier. In remote Setup, use the Support tab.

Job Log Setup



Auto Print Job Log Every 55 Jobs—Specify whether the GA-1120 prints the Job Log after every 55 jobs. The Job Log lists the last 55 jobs processed on the GA-1120, with accounting information about each one, including user name, document name, time and date printed, number of pages, and other job information.

Auto Clear Job Log Every 55 Jobs—Specify whether the GA-1120 clears the Job Log after every 55 jobs. If you do not select this option, the GA-1120 saves a file containing a record of all jobs ever printed. Since this file takes up space on the GA-1120 hard disk, clearing the Job Log frees up additional disk space.

You can clear the Job Log manually at any time from the job management tools.

Job Log Page Size—Select the size of paper to print the Job Log on.

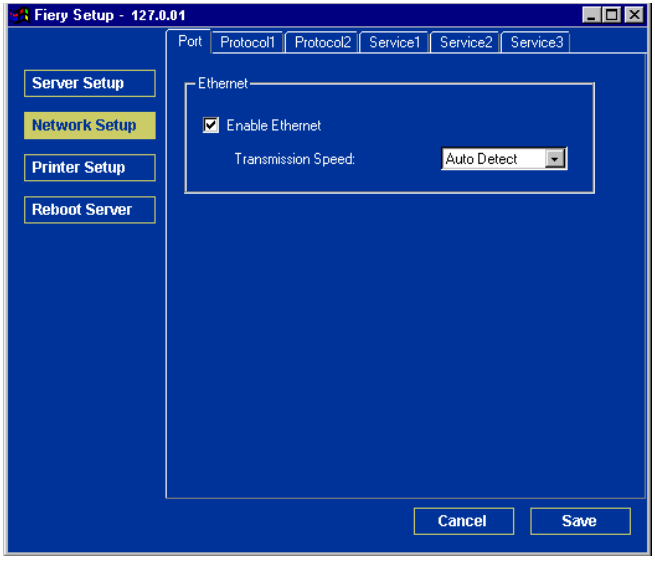
Network Setup

Network Setup configures the GA-1120 to receive print jobs over the networks that are used at your site. If the GA-1120 is configured to enable more than one protocol, it automatically switches to the correct protocol when it receives a print job. When two network ports are enabled, print jobs can be received over all ports at the same time.

You can view and specify the following network settings in Network Setup:

- Adapters and ports—view currently configured network adapters and port settings
- Protocols—including AppleTalk, IPX/SPX, and TCP/IP
- Print Services—including LPD printing (TCP/IP), NetWare printing (PServer), Windows print sharing (SMB), HTTP support (WWW), IPP printing, and Port 9100 printing
- E-mail Service—specify the Fiery E-mail Service

Adapters/Ports

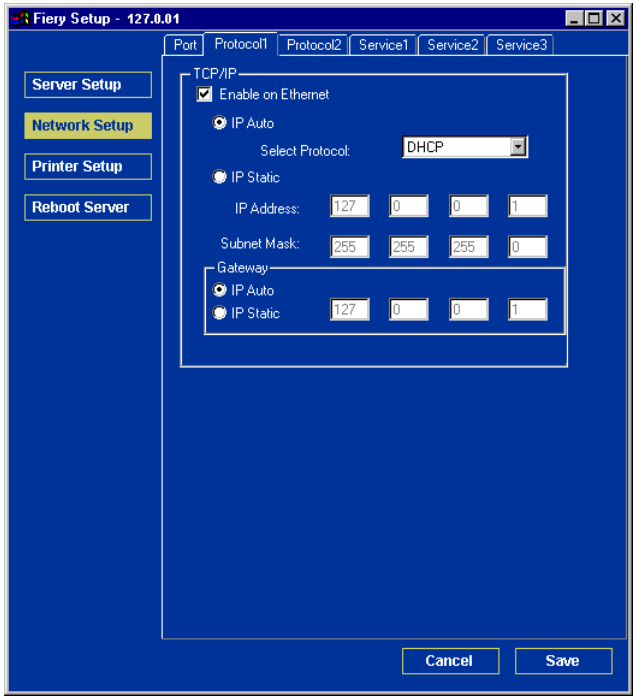


Ethernet (Port Setup)

Enable Ethernet—Select if the GA-1120 is to be connected to an Ethernet network.

Transmission Speed—Chose Auto Detect if your network environment is mixed, or choose the speed of the network to which the GA-1120 is attached (10 Mbps or 100 Mbps).

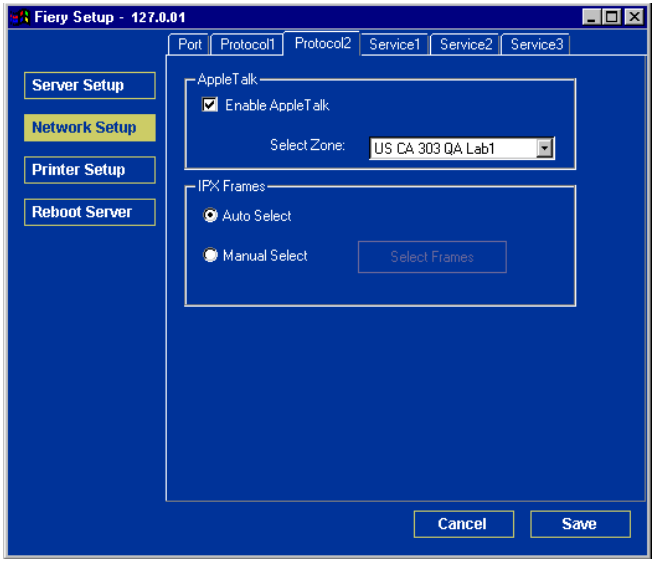
Protocols



You can change AppleTalk, IPX/SPX, and TCP/IP protocol settings for the GA-1120. Change these settings on the Protocol1 and Protocol2 tabs.

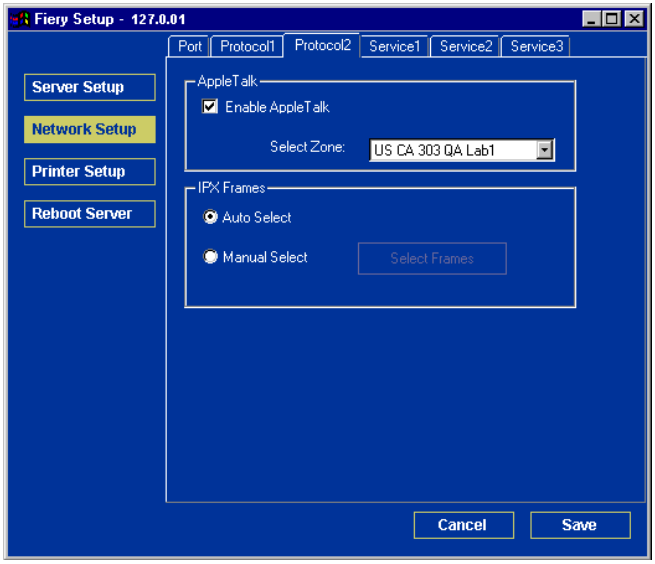
AppleTalk

The current AppleTalk zone is displayed.



IPX/SPX

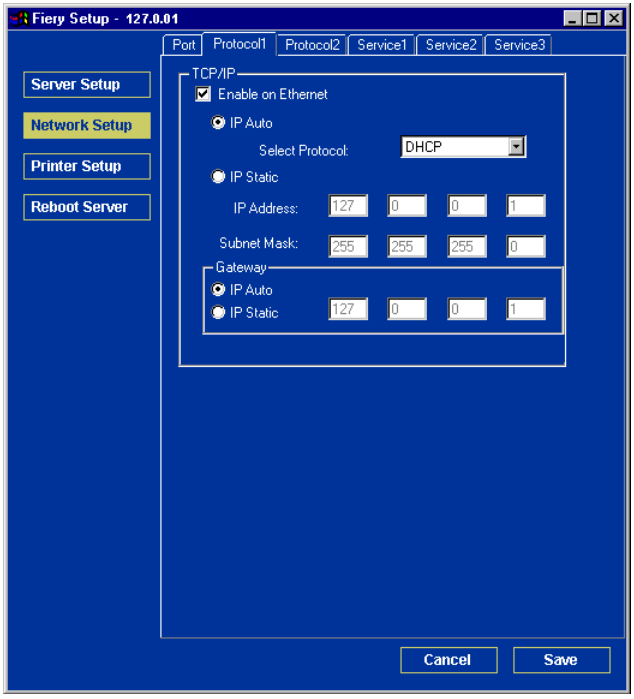
Use this option to specify IPX/SPX frame types.



The GA-1120 supports the following Ethernet frame types for IPX/SPX: Ethernet 802.2, Ethernet 802.3, Ethernet II, and Ethernet SNAP. You can also allow the GA-1120 to select the frame type automatically.

TCP/IP

Specify TCP/IP settings. The current settings for IP address, subnet mask, and default gateway address are displayed. For information about setting up printing with TCP/IP, see Chapter 2.



The GA-1120 requires a unique, valid IP address. You can set a static address or specify that the GA-1120 use DHCP, BOOTP, or RARP to obtain IP addresses automatically.

NOTE: If you specify the DHCP, BOOTP, or RARP protocol, the GA-1120 reboots when you save your changes and exit Setup. Allow the GA-1120 to reboot and return to Idle before printing a Configuration page or proceeding with any other operations.

To set the subnet mask, enter one of the following values:

255.0.0.0 if the IP address starts with a number less than 128

255.255.0.0 if the IP address starts with a number from 128 through 191

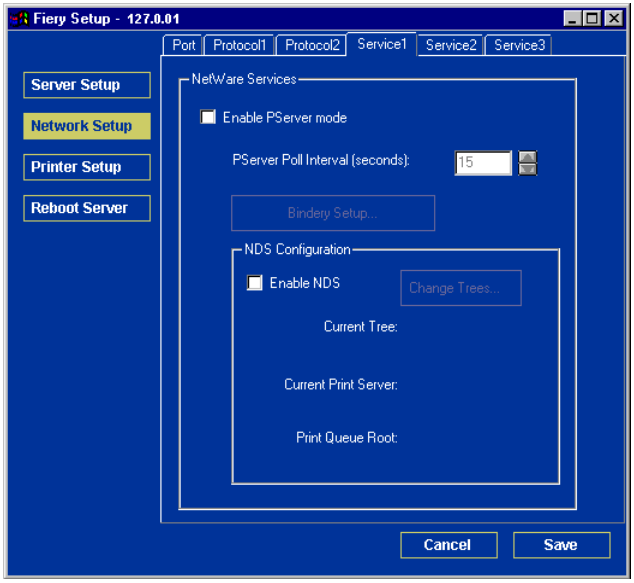
255.255.255.0 if the IP address starts with a number greater than 191

NOTE: Confirm the subnet mask setting with your network administrator before proceeding. In some cases, the required setting may be different from those listed.

If your TCP/IP network has a gateway and users outside the gateway plan to print to the GA-1120 using TCP/IP, enter the gateway address.

NOTE: The GA-1120 stores assigned IP addresses, even if you later disable TCP/IP. If you need to assign the GA-1120 IP address to another device, first set the GA-1120 address to a null address.

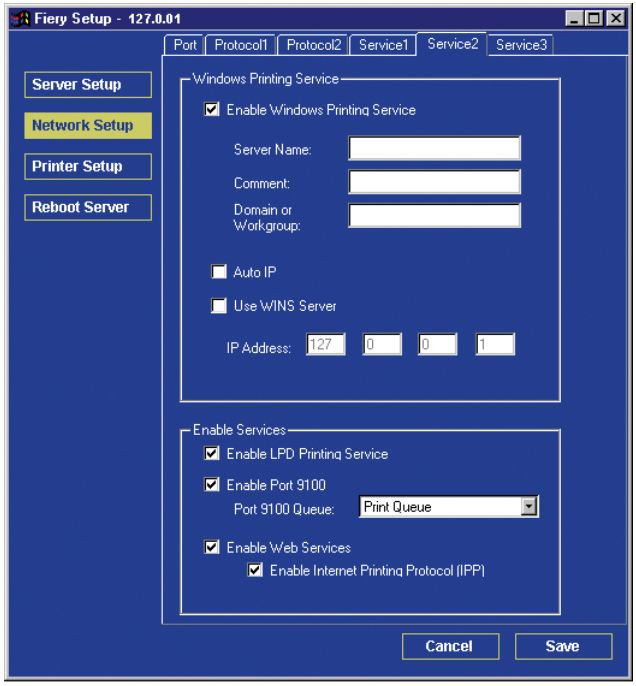
Services



You can configure the following network services:

- LPD Printing (TCP/IP)—enable or disable LPD print services.
- NetWare Printing (PServer)—specify NDS and Bindery services (see page 5-15).
- Windows Print Sharing (SMB)—enable or disable SMB print services.
- HTTP Support (WWW)—enable or disable support for WebTools.
- Port 9100—enable or disable support for Port 9100 printing.
- E-mail Service—specify the Fiery E-mail Service

LPD Printing



Enable LPD Print Services—Select to enable or disable LPD printing services.

Enable Web Services—Select to enable or disable web services.

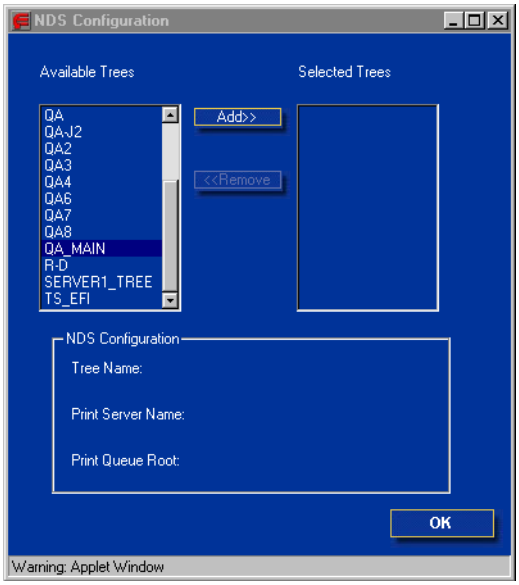
NetWare Printing options

Use this option to specify NDS and Bindery services.

TO SPECIFY THE NDS TREE SETTING FROM REMOTE GA-1120 SETUP

1. **Select Enable NDS and click Change Trees.**

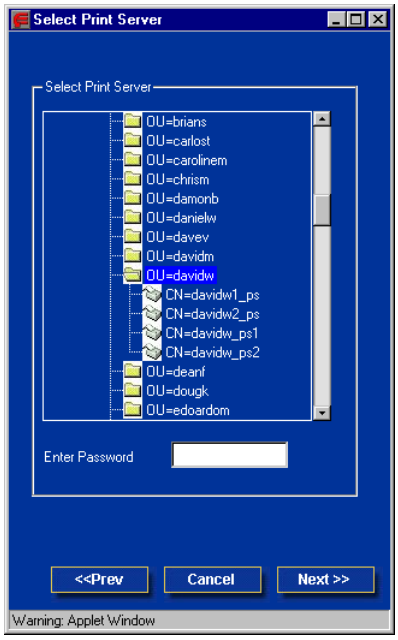
2. **In the NDS Configuration window that appears, double-click an NDS tree in the Available Trees list.**



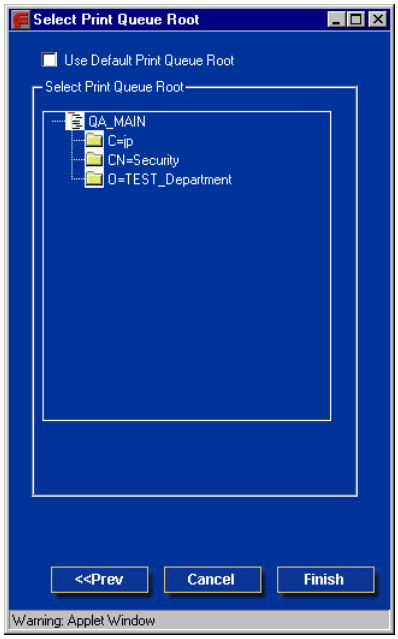
3. **In the Select User Login window, select Use Default User Information or enter your password, and click Next.**

4. **Navigate to the NDS container, select it, and click Next.**

   If necessary, enter the password.

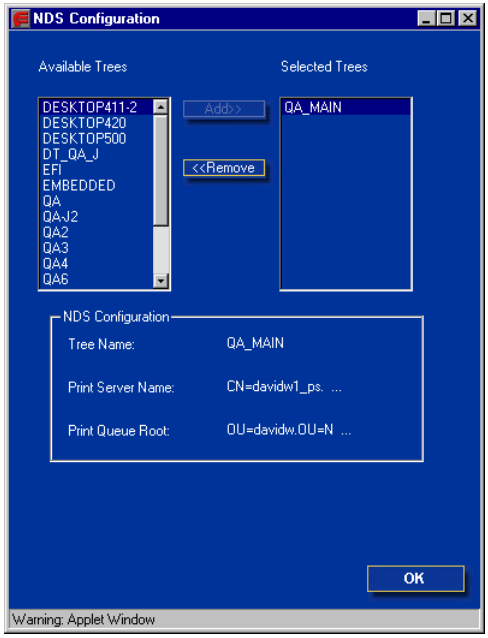


5. **Select Use Default Print Queue Root or navigate to the Print Queue Root and click Finish.**



6. **Click OK.**

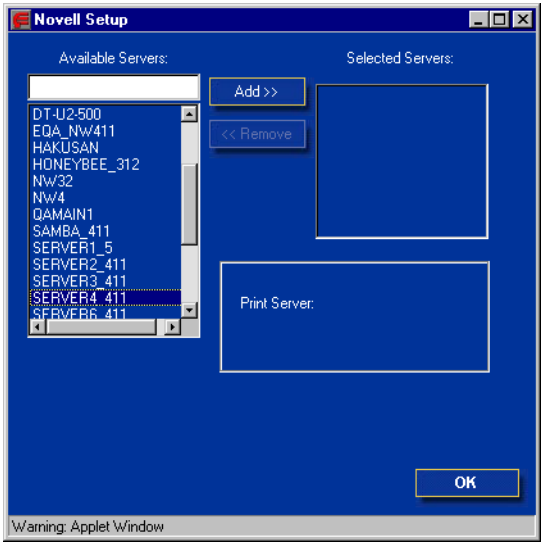
   The NDS Configuration window appears, displaying information about the print server.



Bindery Setup

To add Bindery connections from remote GA-1120 Setup

1. **Select Enable PServer mode from the Service1 tab.**
2. **Click Bindery Setup.**
3. **Select a file server from the Available Servers list.**

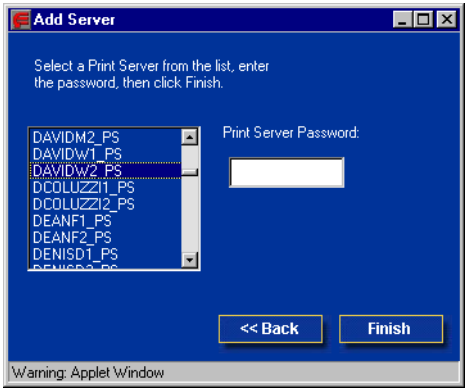


If the File Server User Name and Password dialog box appears, enter the appropriate user name and password to log on to the selected file server.

4. **Select a print server from the list and click Finish.**

   If necessary, enter the appropriate password in the Print Server Password dialog box to log in to the selected file server.

   The name of the newly added server appears in the Selected Servers list.

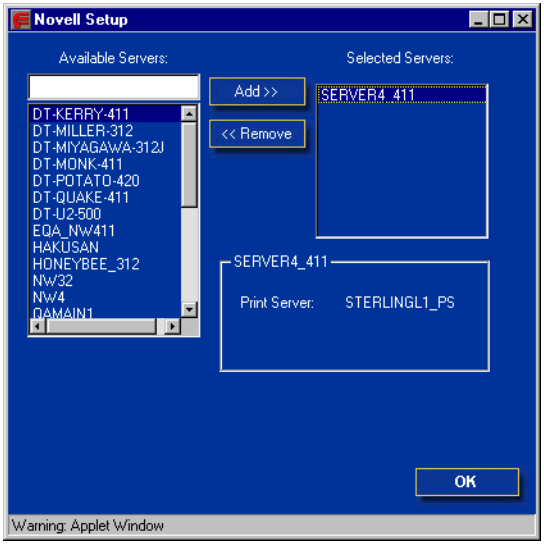


5. **When you finish adding servers, click OK.**

To remove Bindery connections from remote GA-1120 Setup

1. **Select Enable PServer mode from the Service1 tab.**
2. **Click Bindery Setup.**

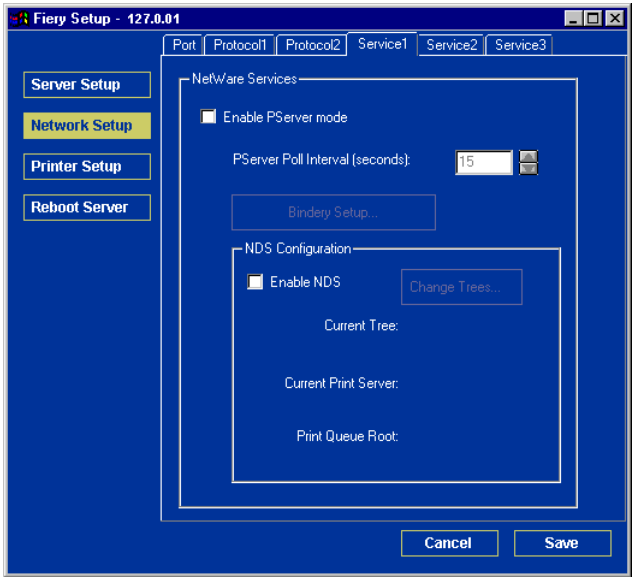
   The Novell Setup dialog box appears.
3. **Make your selection in the Selected Servers list.**



4. **With the file server selected in the Connected Servers list, click Remove.**
5. **Click OK.**

PServer Poll Interval

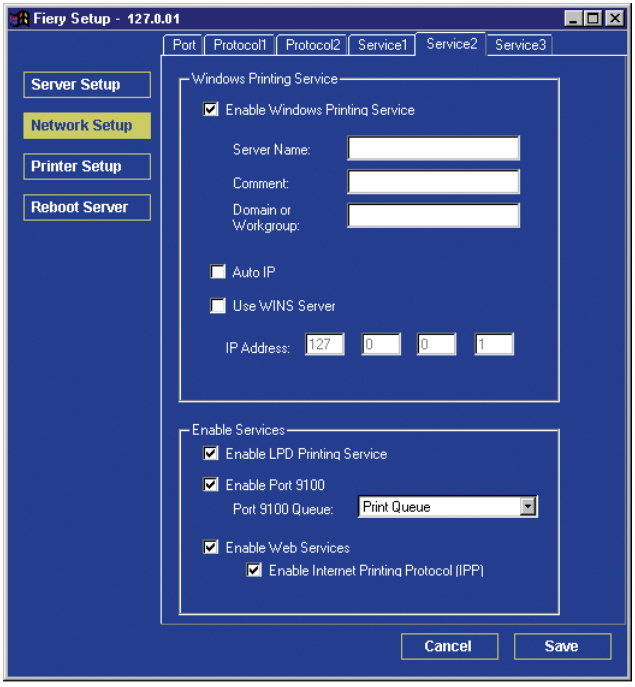
Specify the polling interval (in seconds) for NetWare printing.



Windows Print Sharing (SMB)

For setting up the Windows printing service, text fields may include uppercase letters, numerals, spaces, and the following characters:
- _ . ~ ! @ # $ % ^ & ( ) { } \ ' , "

NOTE: Lowercase letters are *not* allowed, except in the Comment field.



Enable Windows Printing Service—Select to enable SMB (Server Message Block), the file and printer sharing protocol built into Windows. Enabling SMB allows the GA-1120 to be listed on the network so that Windows clients can print to a particular print connection (Hold, Print, or Direct) on the GA-1120 without any other networking software. For information on setting up a Windows client for Windows printing, see the *User Software Installation Guide*.

NOTE: Windows (SMB) printing runs over TCP/IP, so you must configure TCP/IP on the GA-1120 and any computers that use Windows printing.

Server Name—Enter the server name that will appear on the network. It can, but does not have to, be the same name as the server name assigned to the GA-1120 (see page 5-3).

Comment—Enter information about the printer, up to 15 characters. These comments are listed in the Properties of the GA-1120 in Network Neighborhood. Lowercase letters are allowed in this field.

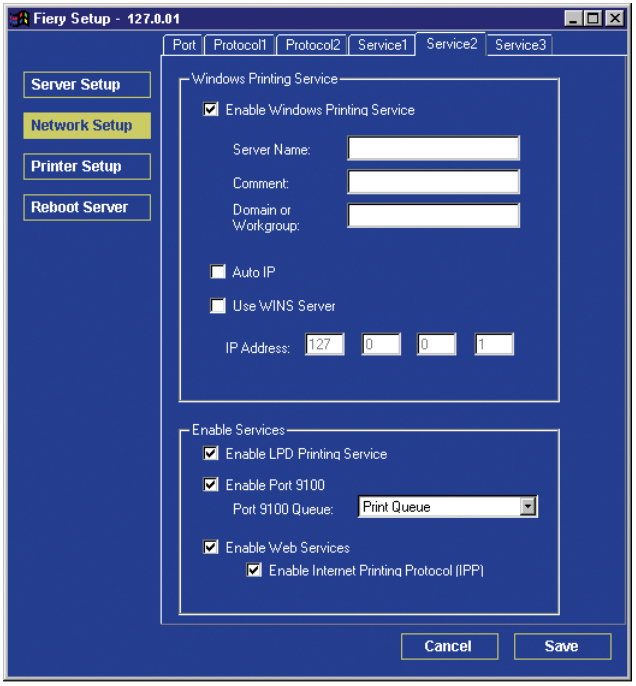
Domain or Workgroup—Enter the workgroup or domain where the GA-1120 should appear.

Auto IP—If you have already enabled IP Auto in Protocol Setup, and selected either DHCP or BOOTP as the protocol for obtaining an IP address, check this option to allow the GA-1120 to obtain the IP address automatically for the WINS Name Server. If you do not check this option, you can use the following two options to specify whether to use a WINS Name Server and what its IP address is.

Use WINS Server—Select to use a WINS name server. Broadcasts from SMB devices cannot be routed beyond their original network segment without a WINS name server. Setting up the WINS name server is outside the scope of this manual. To find out if a name server is available, contact your network administrator.

IP Address—Enter the IP address of the WINS name server.

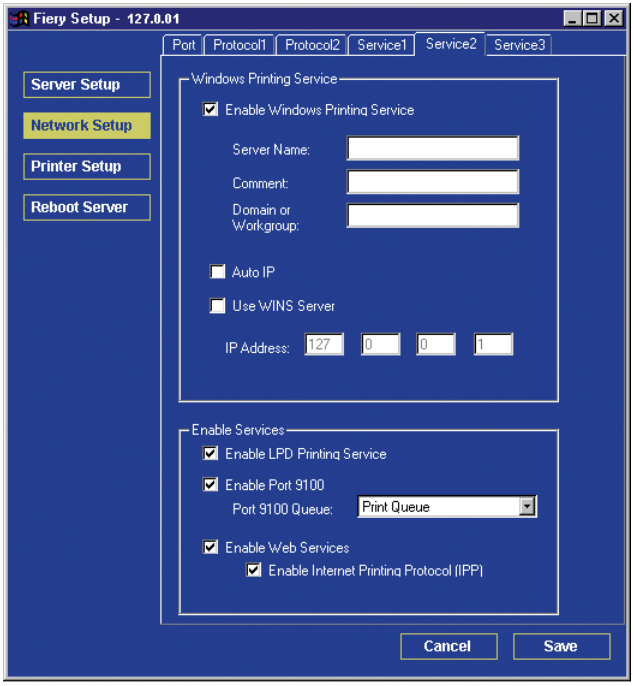
HTTP Connection Support (WWW)



Enable Web Services—Select to make the WebTools available to users (see page 6-2). TCP/IP must already be enabled on the GA-1120 and on users' computers. The WebTools include WebSpooler, Status, WebLink, WebSetup, WebDownloader, WebScan, and Installer. A Java-enabled Web browser and a valid IP address are required for each user. For details on supported browsers and workstation requirements, see the *User Software Installation Guide*.

Enable Internet Printing Protocol (IPP)—Select Yes to enable printing with the IPP. You must enable Web Services. For information on setting up users' computers to use IPP printing, see the *User Software Installation Guide*.

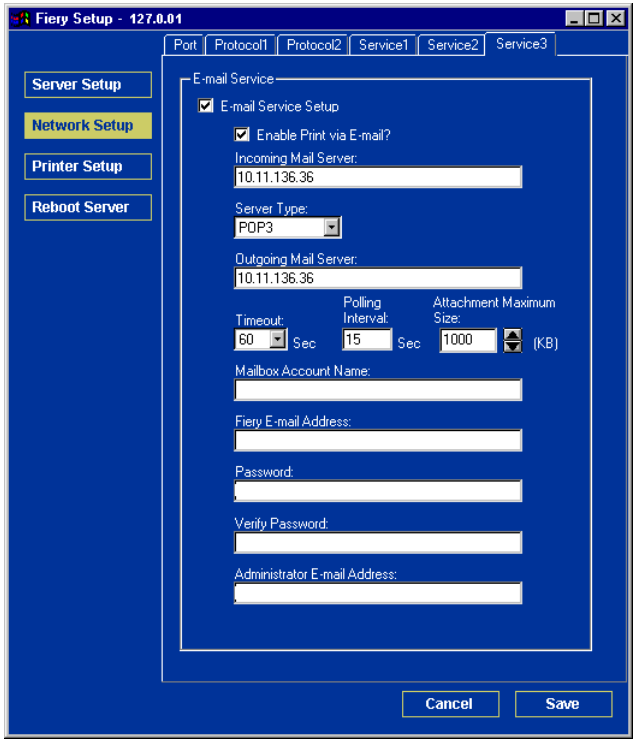
Port 9100 printing



Enable Port 9100—Enables applications to open a TCP/IP socket to the GA-1120 at Port 9100 to download a print job.

Port 9100 Queue—Allows you to attach Port 9100 to any of the published GA-1120 print connections.

E-mail Service Setup



E-mail Service Setup—Enabling e-mail services is required for all e-mail client services.

Enable Print via E-mail—If selected, print jobs sent via e-mail are accepted. If this option is cleared, print jobs sent via e-mail are ignored.

Incoming Mail Server—Specify the IP address or server name that communicates the appropriate mail server and contact information to the GA-1120.

Server Type—Specify the e-mail protocol used to communicate with the incoming mail server.

Outgoing Mail Server—Specify the IP address or server name that communicates the appropriate mail server and contact information to the GA-1120.

NOTE: Both an Incoming and Outgoing mail server must be defined. If an Outgoing mail server is not defined, the e-mail service assumes that the incoming and outgoing server names are the same.

Timeout (seconds)—Specify the maximum amount of time that will elapse as the GA-1120 attempts to connect to the mail server.

Polling Interval—Specify how often the GA-1120 checks the mail server for relevant e-mail.

Attachment Maximum Size—Specify the maximum file size of a scan for the GA-1120 to send as an attachment. If the scan file exceeds this maximum, the file will automatically be sent as a URL.

Mailbox Account Name—Enter the mailbox name specified on the mail server. This name tells the Fiery client mail service which account contains e-mail messages for the GA-1120.

NOTE: The account name entered in this field must first be specified on the mail server by the administrator.

Fiery E-mail Address—Enter the name of the e-mail account. For example, pat@test.com.

Password—Enter a password for accessing the mailbox account on the mail server.

Verify Password (remote setup only)—Reenter your password.

Administrator E-mail Address—Enter the user name specified in GA-1120 setup.

The administrator authorizes a unique e-mail address to remotely administer e-mail services. If an error occurs while you are executing a scan to e-mail, the e-mail service sends an error message to the Administrator E-mail Address specified. The administrator can authorize additional administrator e-mail addresses from this e-mail address.

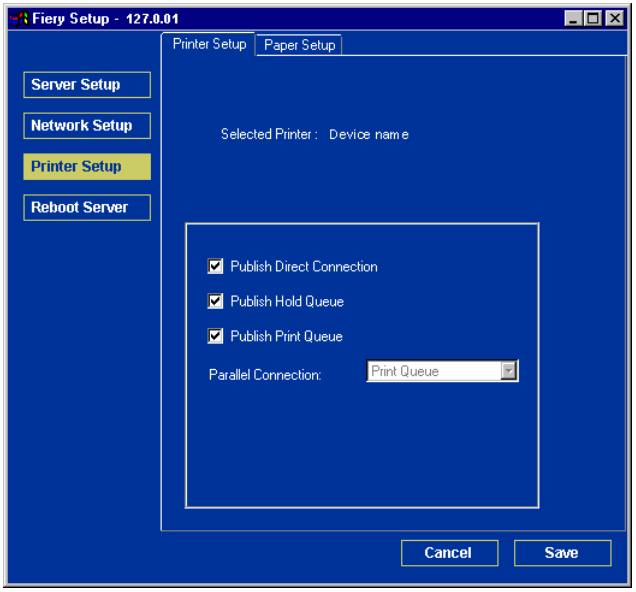
Printer Setup options

From this window, you can access the two tabs: Printer Setup and Paper Setup.

NOTE: In the following illustrations, "Device name" represents the model of the copier connected to the GA-1120, which is Color-MFP.

Printer Connections

Specify whether to publish the Print Queue, Hold Queue, or Direct Connection.



PS (PostScript) Setup

NOTE: In the following illustrations, "Device name" represents the model of the copier connected to the GA-1120, which is Color-MFP.

Convert Paper Sizes—Specify whether to convert paper sizes automatically to the default paper sizes specified. For example, if you select Letter/11x17->A4/A3, a letter size job is automatically printed on A4 paper.

Toner Reduction—Specify whether to minimize the effects of "blasting", which occurs when excess amounts of toner on certain media types "blast" beyond the color density boundaries defined in the print job.

Page Order—Specify the page order for printed output. Forward prints pages in the order received, so that the last page is on the top of the stack and the first page is on the bottom. Reverse prints jobs in reverse order, so the first page is on the top of the stack and the last page is on the bottom.

Default Paper Sizes—Specify whether to print on US paper sizes (for example, Letter, Legal, Tabloid), or Metric paper sizes (for example, A4 or A3) by default. When no paper size is defined within a PostScript file, jobs are printed on Letter-size paper if you select US, or A4 paper if you select Metric.

Print Cover Page—Specify whether the GA-1120 prints a cover page (job summary) at the end of each print job. If you choose Yes, each print job is followed by a page containing the name of the user who sent the job, the document name, the server name, the time the job was printed, the number of pages printed, and the status of the job. If a PostScript error occurs and the Print to PS Error option is set to Yes, the Cover Page lists the PostScript error message instead of the job status.

Allow Courier Substitution—Specify whether to substitute Courier for unavailable fonts. When you choose Off, jobs requiring fonts unavailable on the GA-1120 hard disk generate a PostScript error and do not print. This setting does not apply to PDF files; font substitution occurs automatically for PDF files.

Print to PS Error—Specify whether the GA-1120 should print the available portion of a print job when it encounters a PostScript error. In general, this option should be No.

- When you choose No, the printing of the entire job is canceled when a PostScript error occurs, but the processed portion of the job and the PostScript error information are stored on the GA-1120. You can view the job and the error information from the job management tools.
- When you choose Yes, the portion of the job processed before the error occurred is printed.

Exiting Setup

When you have finished specifying Setup options, click OK and close the Setup dialog box. You are notified that the GA-1120 must be restarted for the new settings to take effect. You can restart now or later. If Command WorkStation is running, the connection to the GA-1120 is lost and you must log on again when the server has restarted.

After you have completed Setup and restarted the GA-1120 for the first time, install the user software for printing on remote workstations, as described in the *User Software Installation Guide*. To confirm the network connection and your Setup, print a test job from a remote workstation.

Printing the Configuration page

The Configuration page lists the settings in effect for the current Setup. After you have performed Setup, print a Configuration page to confirm your settings.

The other pages you can print from Command WorkStation include the test page, Job Log, color charts, and Font List. For information on these GA-1120 pages, see the *Job Management Guide*.

TO PRINT THE CONFIGURATION PAGE

1. **In Command WorkStation, choose Print Pages from the server menu.**
2. **Click Configuration.**
3. **Click Print.**

   Post the current Configuration page near the server for quick reference. Users need the information on this page, such as the current printer default settings.

Chapter 6: Configuring Fiery WebTools

Fiery WebTools allow you to manage your GA-1120 remotely from the Internet or from your company's intranet. The GA-1120 has its own home page, from which you can select a variety of functions, including Status, WebSetup, WebSpooler, WebLink, Installer, WebScan, and WebDownloader.

For more information on using WebTools, see the *Printing Guide*.

Configuring the GA-1120 and clients for WebTools

The WebTools provide access to many GA-1120 functions via the Internet (or intranet), providing additional flexibility in remote management. You can access the WebTools from a Windows or Mac OS computer.

To set up WebTools on the GA-1120

1. **In GA-1120 Network Setup, enable TCP/IP.**
2. **Set a valid, unique IP address for the GA-1120, and then set the subnet mask. Set a gateway address, if required.**
3. **Enable Web Services.**
4. **In GA-1120 Printer Setup, confirm that the Print Queue is published.**

To set up WebTools on a computer

1. **Enable TCP/IP networking.**
2. **Assign the workstation a valid, unique IP address and subnet mask, and a gateway address, if required.**
3. **Install an Internet browser that supports the Java language and frames.**

   Make sure Java is enabled. For more information on supported browsers and WebTools requirements, see the *User Software Installation Guide*.

TO ACCESS WEBTOOLS

1. **Start your Internet browser.**
2. **Enter the IP address or DNS name of the GA-1120.**
3. **Press Enter.**

   The GA-1120 home page appears.
4. **Click the name of a particular WebTool.**
5. **Click Configure to enable specific WebTools for users.**

Setting up WebTools

In order for network users to access and use WebTools, you must set certain GA-1120 options in Network Setup and Printer Setup. You also must prepare each user's workstation to communicate with the GA-1120 over the Internet or intranet.

For more information about Network Setup, see Chapter 2.

TO SET UP WEBTOOLS ON THE GA-1120

1. **Set Enable Ethernet to Yes in Network Setup>Port Setup>Ethernet Port Setup.**
2. **Set Enable TCP/IP for Ethernet to Yes in Network Setup>TCP/IP Ethernet Setup.**
3. **Set Enable Web Services to Yes in Network Setup>Network Service Setup>Web Services Setup.**
4. **Exit Network Setup, and choose OK to Save Changes.**
5. **Exit Printer Setup, and choose OK to Save Changes.**

Setting the WebLink destination

You can change the pre-set WebLink destination; this function requires the Administrator password, if one has been set.

TO CHANGE THE WEBLINK DESTINATION

1. **Start your Internet browser.**
2. **Enter the IP address or the DNS name of the GA-1120.**

   The GA-1120 home page appears.
3. **Enter the Administrator password, if required, and click OK.**
4. **Press the Control key (Mac OS) or Ctrl key (Windows) as you click WebLink.**

   The Update WebLink dialog box appears.
5. **Enter the new WebLink address (URL) and click OK.**

Chapter 7: Administering the GA-1120

This chapter provides tips on managing GA-1120 printing.

Administrator functions

Administration features are included with the user software and are built into the GA-1120 itself. The following table describes where to find information on these features (page references refer to this manual).

For these operations	And these tasks	See
Setting up network servers	Setting up servers to manage and share printing services	This manual
Connecting and setting up the GA-1120	Connecting the GA-1120 and performing GA-1120 Setup	This manual
	Setting up the GA-1120 to allow user access to WebTools	This manual *Release Notes*
Setting up the printing environment	Setting printer defaults, including modes, imaging, paper size handling, error handling	Printer Setup, pages 4-37 5-29 PS Setup, pages 4-38 and 5-30 *Color Guide* *Printing Guide*
Setting up the job environment	Publishing the Direct connection, Print queue, or Hold queue to end users on various platforms	Printer Setup, Chapter 2, pages 4-37 and 5-29
Protecting integrity of users' jobs, maintaining consistency of GA-1120 settings	Setting the Administrator password	Passwords, page 7-2 Chapter 3
Setting up all new users	Setting up printing, including installing PostScript printer drivers and PPD files for the printer Installing optional user software Installing color reference pages (CMYK swatches, PANTONE Reference, color sample pages) Preparing users to access WebTools	This manual *Release Notes*
Getting users started with printing	Printing to the GA-1120 Setting job-specific options Using Fiery utilities	*Printing Guide* *Job Management Guide*

For these operations	And these tasks	See
Controlling the job flow	Using WebTools, Command WorkStation and Fiery utilities and for managing job priorities, tracking current jobs, canceling jobs, printing jobs in the Hold queue, and reprinting from the Printed or Hold queue	*Printing Guide* *Job Management Guide* *Release Notes*
Job accounting	Viewing, printing, and exporting the Job Log, user notes Setting automatic printing and clearing for the Job Log	*Job Management Guide*
Color management	Printing with CMYK simulations Printing color samples and swatch pages Installing color profiles	*Color Guide* *User Software Installation Guide*
Maintaining optimal GA-1120 performance	Tips Deleting jobs, clearing queues	page 7-11, also *Job Management Guide*
Troubleshooting	Troubleshooting GA-1120 Setup	Appendix A

Setting passwords

You can set or change the Administrator password for the GA-1120. Anyone with the Administrator password can modify the Setup options, and control the flow and order of print jobs with the job management tools.

When the GA-1120 is installed, there is no password. If you do not create an Administrator password, users are not required to enter a password to modify the Setup or use the administrator functions in the job management tools. If an Administrator password has been set previously, you are required to enter it when you run Setup. Use the Up and Down arrow buttons to select the characters and the Left and Right arrow buttons to move between them (see "Types of Setup screens" on page 4-9).

Passwords from the Control Panel

For more information on Administrator access privileges, see page 3-3. For information on controlling print jobs with the job management tools, see the *Job Management Guide*.

NOTE: The Operator password can be set and changed only from Fiery WebSetup, local Setup, or Command WorkStation.

TO CHANGE THE GA-1120 PASSWORD

1. **Scroll through the main Setup menu and choose Change Password.**
2. **Enter and confirm the password, as described below.**

New Password

Use the Up and Down arrow buttons to select the characters and the Left and Right arrow buttons to move between them. Enter characters from left to right, since the Left arrow button is also a Delete key. The password can be any combination of letters and numbers up to 19 characters. Choose Set when you are done. Be sure to keep track of the password.

NOTE: The only way to remove a password that you cannot remember is to reinstall the system software.

Verify New Password

Reenter the new password, exactly as you entered it initially. If you make a mistake, you are prompted to enter the password again. The new password is effective after you save changes and restart the GA-1120.

Passwords

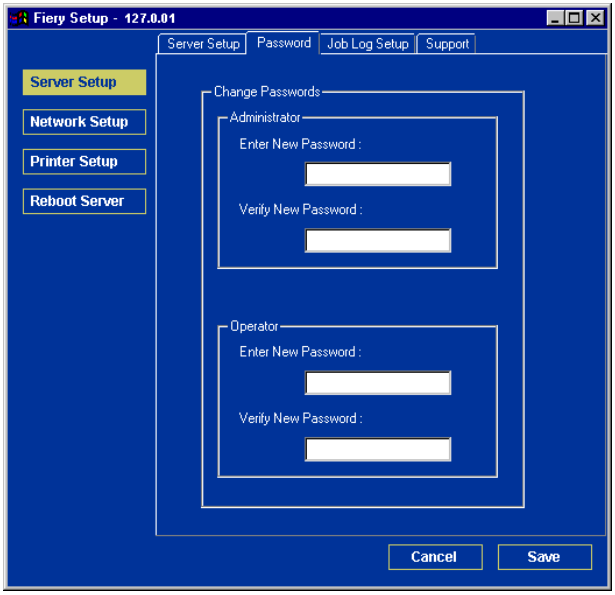
You can set, change, and remove passwords for the GA-1120. These passwords, specific to the Server process, have different uses than the Windows NT Administrator and Operator passwords. Keep careful track of the passwords you set for each.

Administrator—Controls access to Setup; Administrator privileges also include Operator privileges.

Operator—Controls access to job management functions via the job management tools.

NOTE: For more information on GA-1120 passwords and the access privileges they allow, see page 3-3.

By default, *no* passwords are set. If you do not specifically set passwords, all users will have access to important functions such as Setup (including setting passwords) and job control. We *strongly recommend* that you set at least an Administrator password to protect the GA-1120 from unauthorized changes to Setup.



TO SET OR CHANGE A PASSWORD

1. **Select the password you want to change.**

2. **Type the password in both the Enter New Password and Verify New Password fields.**

   Passwords are case-sensitive and can be any combination of letters and numbers up to 19 characters. You must enter the password *exactly* the same way both times. The new password remains in effect until you change it.

TO REMOVE A PASSWORD

1. **Select the password you want to delete.**
2. **Delete the asterisks (*) in both the Enter New Password and Verify New Password fields.**

If you forget the Administrator password, contact your authorized service representative to reinstall GA-1120 system software. This clears the Administrator password and allows you to set a new one.

Clearing the GA-1120

The Clear Server command allows you to clear all queued print jobs from the GA-1120—jobs in the GA-1120 Print, Hold, and Printed queues. Jobs can also be deleted, either individually or as a group, using the job management tools. Clear Server also clears all jobs archived on the GA-1120 hard disk, the index of archived jobs.

To clear the GA-1120, scroll through the Functions menu and choose Clear Server. You are asked to confirm your selection. If the Administrator password has been set, you are prompted to enter it.

Managing Address Books

The E-mail Service feature allows an administrator to import a list of e-mail addresses to the GA-1120. This is done by sending messages to the GA-1120 in e-mail form.

NOTE: E-mail messages can be sent only from an administrator account.

The GA-1120 supports the following address books:

- **User**—a generic address book used primarily for scan to e-mail. This address book is used for outgoing e-mail only.
- **Admin**—includes users with administrative access. Administrative access allows you to modify the address book, get the current address book from the GA-1120, and cancel or get status on any print job.
- **Print**—includes users who have print access. Only users whose e-mail addresses are in the print address book are authorized to submit jobs via e-mail to the GA-1120. Unauthorized users receive an e-mail reply that their job was not accepted by the GA-1120 for printing.

E-mail Service also allows the administrator to overwrite the address book, append new addresses, remove addresses, and retrieve current addresses on the GA-1120.

When a print job is submitted via e-mail, the GA-1120 first checks the Print address book. If the user's e-mail address does not match any entry in the Print address book, the job will not print. Instead, the user will receive an e-mail stating that the print job was not accepted.

The default wildcard character "@" is stored in the Print address book. This allows any user to print to the GA-1120 until the administrator adds the first entry in the Print address book.

The administrator can manage the address books by sending an e-mail to the GA-1120 with command codes in the subject and message fields. The GA-1120 responds by e-mail to these commands with information about each request. Refer to the following table when managing address books.

Task	Administrator subject field	Administrator message field	Fiery e-mail response subject field	Fiery e-mail response message field
To retrieve a specific address book	#GetAddressBook *name of address book* For example: #GetAddressBook Admin		Address Book *name of address book* For example: Address Book Admin	List of addresses in the specified address book.
To add an address to an address book	#AddAddressTo *name of address book* For example: #AddAddressTo Print	name@domain or “display name” <name@domain>	Added to Address Book *name of address book* For example: Added to Address Book Print	List of addresses added to the address book. The GA-1120 also lists any addresses that cannot be added and includes the reason.
To clear an address book	#ClearAddressBook *name of address book* For example: #ClearAddressBook User		Address Book *name of address book* cleared or Address Book *name of address book* not cleared For example: Address Book User cleared	If the address book is not cleared, the reason is given.

Task	Administrator subject field	Administrator message field	Fiery e-mail response subject field	Fiery e-mail response message field
To delete an address from an address book	#DeleteAddressFrom *name of address book* For example: #DeleteAddressFrom User	name@domain or “display name” <name@domain>	Removed from Address Book *name of address book* For example: Removed from Address Book User	Deleted Address 1 Deleted Address 2 The GA-1120 also lists any addresses that cannot be deleted and includes the reason.
To receive help for GA-1120 e-mail services	#Help		RE: Help	Provides troubleshooting e-mail syntax.

Printing a Configuration page from the Control Panel

The Configuration page lists all the settings in effect from the current Setup. After you have finished running Setup, print a Configuration page to confirm your settings. The Configuration page can also be printed from Command WorkStation (for details, see page 5-32).

After you make changes to Setup and choose Exit Setup, the GA-1120 reboots. This allows the GA-1120 to recognize the new settings and display them properly on the Configuration page. Allow the GA-1120 to restart and return to Idle before printing a Configuration page. In particular, the restart is necessary if you specified the DHCP, BOOTP, or RARP protocol to obtain an IP address automatically for the GA-1120.

Post the current Configuration page near the server for quick reference. Users need the information on this page, such as the current printer default settings.

Other pages you can print from the Control Panel of the GA-1120 or from Command WorkStation include the Test Page, Font List, E-mail Log, Job Log, Control Panel Map, and PANTONE, CMY, and RGB color charts. For information on these pages, see the *Job Management Guide*.

TO PRINT THE CONFIGURATION PAGE

1. **At the Control Panel, press the Menu button to access the Functions menu.**
2. **Scoll to Print Pages. Press Set.**
3. **Choose Configuration. Press Set.**

Maintaining optimal GA-1120 performance

The GA-1120 does not require maintenance. Beyond the obvious requirements of servicing and maintaining the copier and replenishing consumables, you can improve the overall performance of your system by doing the following:

- **Make the best use of your network connections**

  Publish only connections that will be used; the GA-1120 constantly checks all published connections, even if they are inactive. Match the NetWare polling interval and the number of queues or connections to the demand for printing.

  Review the published connections by printing a Configuration page. Eliminate the connections that are not being used. It is easy to re-establish them when needed.

- **Leave less urgent jobs to times when there is less network traffic or printing**

  You can print recurring print jobs or jobs that are not urgent to the Hold queue. At low-traffic times, the administrator or a user of the job management tools with Operator privileges can move (or copy) all the Hold queue jobs to the Print queue for printing.

- **Reduce unnecessary two-way communication**

  Large numbers of users running Fiery utilities, especially with frequent updates, may have a significant effect on GA-1120 performance.

- **Make sure you have adequate disk space on the GA-1120**

  Periodically review the list of jobs in the Hold queue, and the number of jobs being retained in the Printed queue.

  An administrator can print or delete jobs that are in the Printed queue and Hold queue. Consider printing or offloading inactive jobs. If disk space on the GA-1120 is frequently low, you can disable the Printed queue (in Server Setup) and choose not to publish the Hold queue (in Printer Setup).

  To move or remove queued jobs, use the job management tools. When you free up disk space by removing inactive jobs, new jobs are spooled and printed more quickly.

Shutting down, rebooting, and restarting the GA-1120

Generally, you can leave the GA-1120 and the copier running all the time. This section describes how to reboot, shut down, and restart the GA-1120 when necessary.

Shutting down and rebooting the Fiery X3e

You may need to shut down the GA-1120 for service, or reboot the entire GA-1120 system. When you do so, fonts that have been downloaded to the hard disk drive are not deleted. Print jobs in the Hold queue, the Printed queue, and jobs that have been processed but not printed are not deleted; they will be available for printing when you restart the GA-1120.

TO SHUT DOWN THE GA-1120

1. **Make sure that no jobs are being processed or printed (the activity light should be off).**
2. **Press the Menu button on the Control Panel to access the Functions menu.**
3. **Use the Down arrow to scroll to Shut Down. Press the Set button.**
4. **Use the Down arrow to scroll to Shut Down System. Press the Set button.**
5. **It is now safe to power off the copier using the main power switch.**

   NOTE: After powering off the copier, wait at least three seconds before powering it back on.

TO REBOOT THE GA-1120

1. **Press the Menu button on the Control Panel to access the Functions menu.**
2. **Use the Down arrow button to scroll to Shut Down. Press the Set button.**
3. **Use the Down arrow button to scroll to Reboot System. Press the Set button.**

   The GA-1120 will reboot.

Restarting the GA-1120

Restarting the GA-1120 resets the GA-1120 system software, but does not reboot the entire system. Network access to the GA-1120 is temporarily interrupted and all currently processing jobs are aborted.

TO RESTART THE GA-1120

1. **Power on the copier using the main copier power switch.**
2. **Wait approximately three seconds, and press the Menu button on the GA-1120 Control Panel to access the Functions menu.**
3. **Use the Down arrow to scroll to Shut Down. Press the Set button.**
4. **Use the Down arrow to scroll to Reboot Server. Press the Set button.**

   If an error occurs during startup, the activity light will turn red. Check the Control Panel display for details of the error.

Appendix A: Troubleshooting

This chapter provides troubleshooting tips.

Troubleshooting the GA-1120

Startup diagnostics are described in the *Installation and Service Guide* for service technicians. Contact your authorized service/support center if you see any startup error messages on Command WorkStation or if the GA-1120 does not reach the Idle state.

Troubleshooting during Setup from the Control Panel

The following section explains some error and alert messages you may see during Setup that might not be self-explanatory.

Network Setup messages

After this Setup screen	This message	Means
Enable AppleTalk (Network Setup>Protocol Setup>AppleTalk Setup)	No AppleTalk zone found.	The Ethernet network cable is not attached to the connector on the GA-1120, or the network cable is not plugged into the hub or network. If your AppleTalk network has zones, and you want to specify a zone for the GA-1120, you must connect the network cable to the GA-1120 before performing AppleTalk Setup. Could also mean the AppleTalk network does not have zones. Zones are not required for printing to the GA-1120. Press Set to continue.
Protocol Setup or Service Setup (Network Setup)	You must first enable a network port.	Enable at least one network port (Ethernet) in Port Setup before beginning Protocol Setup or Service Setup.
Frame Type selection (Network Setup>Protocol Setup>IPX/SPX Setup)	Invalid frame size.	The network hub is not connected to a Novell machine when the GA-1120 tries to bind.
	Warning! IPX network number is zero.	No other IPX machine can be found on the network, or the network hub is not connected to the network when the GA-1120 tries to bind. When this occurs, the network number defaults to zero.

After this Setup screen	This message	Means
Enable NDS (Network Setup>Service Setup>PServer Setup>NDS Setup)	No NDS trees found.	No NDS trees were found on the Novell network. Check to see that the frame types on the GA-1120 are properly configured.
Select NDS Tree (Network Setup>Service Setup>PServer Setup> NDS Setup)	Warning! Selecting a new NDS tree deletes Bindery setup.	You have previously connected the GA-1120 to a different NDS tree. NetWise supports only a single NDS tree connection. To avoid a potential conflict with an existing tree connection (for example, if the connection was made through a NetWare 4.x server in emulation mode), all bindery settings will be deleted. If you choose OK, and choose Yes in the following message (Delete Bindery setup and continue?), bindery settings are deleted and have to be re-entered in Bindery Setup. To avoid deleting the bindery settings, press the Menu key, or select OK and choose No in the following message (Delete Bindery setup and continue?). Repeat NDS Setup without changing the NDS tree, or exit to Bindery Setup to review your current bindery settings.
Navigating NDS tree (Network Setup>Service Setup>PServer Setup> NDS Setup)	___ is empty.	The chosen container contains no sub-containers or objects relevant to the current mode of navigation.
Bindery Setup (Network Setup>Service Setup>PServer Setup> Bindery Setup)	If you also plan to use NDS, set up NDS before Bindery.	No NDS settings are present. You are reminded to perform NDS Setup before Bindery Setup in case your network includes both NDS and bindery servers.
Select File Server From List (Network Setup >Service Setup>PServer Setup> Bindery Setup)	Error. Cannot open bindery connection to NDS server.	Select this server through NDS setup or disable NDS and select it through bindery.
	No NetWare file server found.	No file server was found when GA-1120 queried the network to create a list of supported servers or a list of all servers. Check cable connections and make sure the NetWare server is turned on.

After this Setup screen	This message	Means
Enter First Letters of Server Name (Network Setup>Service Setup>PServer Setup> Bindery Setup)	File server name not found. Try again?	No file server with those letters was found when GA-1120 queried the network. Check the name of the NetWare file server, check cable connections, and make sure the NetWare server is turned on.
View Server List, Edit Connection (Network Setup>Service Setup>PServer Setup> Bindery Setup)	No file server is selected.	No file server has been added in Bindery Setup.
Add File Server (Network Setup>Service Setup>PServer Setup> Bindery Setup)	All connections used. Remove server?	You have added the maximum number of bindery servers, which is eight. You now have the option of disconnecting one of those servers, so as to add another.

After this Setup screen	This message	Means
Add Server, Enter Your Login Name, Enter Your File Server Password (Network Setup>Service Setup> PServer Setup> Bindery Setup)	No NetWare print server found.	No print server was found when GA-1120 queried the file server you selected. You must configure a print server and a print queue for every NetWare file server that will handle GA-1120 print jobs (see page 2-10).
Any Bindery Setup screen	Novell error code, followed by a message.	Novell NetWare has reported an error. Command WorkStation reports the error number and displays a brief message. For the most common errors (listed in the following table), a screen is displayed that allows you to retry the action that evoked the error, such as adding a server. If that is not possible, you are prompted to notify the Novell administrator, who will need to troubleshoot the network. Consult NetWare Administrator documentation for further explanation of Novell error codes.

In Network Setup, when you configure the IPX (Novell) connection, the GA-1120 queries the network for Novell file servers and trees, and attaches to them temporarily. If a guest login is enabled, it will be used. If not, you are prompted to log in from Command WorkStation.

If the selected NetWare file server or tree does not have a guest account, or if the guest account has expired or been disabled by the NetWare supervisor, you will be prompted to notify the IPX (Novell) administrator. In that case, there are two options:

- Enable a guest account on the NetWare server or tree for the purpose of setup.
- Log in with a different account. At the ENTER LOGIN NAME screen, change the default name (guest) to supervisor or enter another valid login name. When you are prompted for a password, enter the correct password for the account you named.

For any Novell error, make sure:

- Your IPX (Novell) network is connected to the GA-1120.
- The NetWare server you are trying to access is running.
- The Novell network has been configured with at least one print server and queue for the GA-1120.
- You have the appropriate permissions and login information, including user name and password, if necessary.
- The GA-1120 is configured with the correct frame types for communication with the desired Novell servers.

Novell error messages

Novell error	Cause	Suggested action or exit
220 Guest account not available.	The guest account, which you have chosen for initial login, has expired or has been disabled by the NetWare supervisor.	Enable a guest account on the NetWare server for the purpose of Setup. Alternatively, log in to a different account. In the ENTER LOGIN NAME screen, change the default name (guest) to supervisor or another valid login name. When you are prompted for a password, enter the correct password for the account you named.
222 Unable to log in to server. Password has expired for login name.	The server has connected to a file server, but is unable to log in to the file server or print server because the password has expired for the login account name or the named print server.	Select a different login account or print server. The error screen exits to the File Server Login screen (if login to file server failed) or NetWare Print Server screen (if login to Print Server failed). Pressing the Menu button returns to the PServer Setup screen.
252 Unable to log in to server. Login does not exist.	The server has connected to a file server, but is unable to log in to the server because the selected login account does not exist on the file server.	Select a different login account. The error screen exits to the File Server Login screen. Pressing the Menu button returns to the PServer Setup screen.

Novell error	Cause	Suggested action or exit
255 Unable to connect to file server. File server is down or out of connections.	The Novell file server is down or out of connections. This error occurs while the server is trying to connect to the requested file server.	Select a different file server (or try to get someone else to log off). Pressing the Menu button returns to the PServer Setup screen.
nnn Notify IPX (Novell) Administrator.	Indicates other network errors when the GA-1120 is already connected to a file server. Something unexpected has happened and the user generally cannot recover without intervention of the network administrator. Error #197 indicates that you have exceeded the number of login attempts permitted for this account on the NetWare file server. Error #255 usually indicates a hard failure.	Notify the Novell administrator and report the error number. The error screen exits to the PServer Setup screen.

Runtime error messages

For error messages related to canceling jobs and printing, including the Disk Full message and alerts to load media, see the *Job Management Guide*. These messages are reported by the job management tools.

You can turn on PostScript error reporting as a print option from Mac OS applications.

Printer not found

Most failures to find a printer on the network are due to conflicting or missing name or address settings for the GA-1120. You must enter names in specific places. The required names are:

- TCP/IP host name (also known as the DNS name), which is defined by your organization.

  Enter the host name as the Server Name in GA-1120 Setup.

- Remote printer (internal machine) name. Use one of the following:

  ```
  print
  hold
  ```

NOTE: If you change the DNS name (also known as the TCP/IP host name) of the GA-1120, you must reconfigure one of the Fiery utilities on each workstation.

See the following table for the appropriate name.

In this location	For this item	IPX/SPX networks	TCP/IP networks	See
Server Setup	Server Name option	Administrator defines name	Administrator defines name	page 4-10
Windows NT hosts file	host name	—	DNS name (TCP/IP host name)	page 2-1
Windows NT setup for TCP/IP	lpd host name	—	DNS name (TCP/IP host name)	page 2-1
	Name of printer on lpd host machine	—	print or hold	
UNIX /etc/printcap file (BSD)	rp line	—	print or hold	page 2-17
Solaris	lpadmin queuename	—	print or hold	
NetWare administration utility	print queues (must be all lowercase and in English)	_direct _print _hold	—	page 2-8
Add New Server dialog box, when configuring a Fiery utility	New Device	Utilities are not supported over IPX/SPX.	Color-MFP	*User Software Installation Guide*
	Server Name	Utilities are not supported over IPX/SPX.	DNS name (TCP/IP host name)	

Cannot connect to GA-1120 with Fiery utilities

If users cannot connect to the GA-1120, check the following:

- GA-1120 Setup—the appropriate network protocol must be enabled, with the correct parameters (for example, for TCP/IP, the IP address), and you must publish either the Print queue or Hold queue.

  You can check these settings quickly by printing a Configuration page.

- On the client workstation—the appropriate network protocol(s) must be loaded, and your Windows directory should contain a configured Efinl.ini file.

Cannot connect to the GA-1120 with Command WorkStation

If there is a problem connecting to the GA-1120, an error message is displayed.

The problem can occur when:

- The GA-1120 is first turned on
- The GA-1120 restarts
- You have changed settings affecting the server address and have not reconfigured the connection to the server

If you see this problem, try the following solutions, in this order:

- A remote workstation running Fiery utilities or WebTools may be interfering by obtaining status information. If possible, close the remote application, and try to connect again.
- Restart the Command WorkStation software and try to connect again.
- Check the configuration of the connection and modify it, if necessary, or delete the Efinl.ini file and start over with the process of configuring the connection as described in the *User Software Installation Guide*.

  For Windows9x/Me, the Efinl.ini file is located in \WINDOWS.
  For Windows NT 4.0/2000/XP, the Efinl.ini file is located in \WINNT.

- Restart the GA-1120.

For information on other error conditions, see the *Job Management Guide*.

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